

Substitute Form PTO-1595  
Attorney Docket No.: 04838-0001001

### RECORDATION FORM COVER SHEET PATENTS ONLY

Commissioner for Patents: Please record the attached original document(s) or copy(ies).

1. Name of conveying party(ies): <b>Atheros Powerline LLC</b> 5480 Great America Parkway Santa Clara, CA 95054 Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): <b>Atheros Communications, Inc.</b> 5480 Great America Pkwy Santa Clara, CA 95054	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: <b>03/11/2010</b>		Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s): <b>11/492,505</b>			
		B: Patent No(s):	
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name/address of party to whom correspondence concerning document should be mailed: <b>PTO Customer Number:</b> <b>26161</b>		6. Total number of applications/patents involved: <b>1</b>	
		7. Total fee (37 CFR §3.41): <b>\$40</b> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to charge Deposit Account.	
		8. Deposit Account No.: <b>06-1050</b> Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.	
<b>DO NOT USE THIS SPACE</b>			
9. Statement and Signature: <i>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.</i>			
<u>Elliott J. Mason, III</u> Name of Person Signing		<u>/Elliott J. Mason, III Reg. No. 56,569/</u> Elliott J. Mason, III	
		<u>June 1, 2010</u> Date	
Total number of pages including coversheet, attachments and document: <b>17</b>			

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#### CERTIFICATE OF TRANSMISSION BY FACSIMILE

I hereby certify under 37 CFR §1.8(a) that this correspondence is being transmitted by facsimile in accordance with 37 CFR § 1.6(d).

6/1/2010 Date of Deposit      Paul J. Micele Signature      Paul J. Micele Typed Name of Person Signing Certificate

**PATENT**

**PATENT ASSIGNMENT**

WHEREAS, Atheros Powerline LLC, a limited liability company of the state of Delaware, having a place of business at 5480 Great America Parkway, Santa Clara, CA 95054 ("ASSIGNOR"), is the owner of the entire right, title and interest in and to certain United States patents and patent applications as well as certain foreign patents and patent applications corresponding thereto, said patents and patent applications being identified in the attached Schedule A and being hereinafter referred to as "SOLELY OWNED PATENTS AND PATENT APPLICATIONS".

WHEREAS, ASSIGNOR is the owner, with respective designated parties, of the entire right, title and interest in and to certain United States patents and patent applications as well as certain foreign patents and patent applications corresponding thereto, said patents and patent applications and designated parties being identified in the attached Schedule B and being hereinafter referred to as "JOINTLY OWNED PATENTS AND PATENT APPLICATIONS".

WHEREAS, Atheros Communications, Inc., a corporation of the state of Delaware, having a place of business at 5480 Great America Parkway, Santa Clara, CA 95054 ("ASSIGNEE"), is desirous of obtaining the entire right, title and interest in and to the SOLELY PATENTS AND PATENT APPLICATIONS and the JOINTLY OWNED PATENTS AND PATENT APPLICATIONS.

NOW, THEREFORE, in consideration good and valuable considerations paid by ASSIGNEE to ASSIGNOR, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE, its successors and assignees, its entire right, title and interest in and to the SOLELY PATENTS AND PATENT APPLICATIONS and the JOINTLY OWNED PATENTS AND PATENT APPLICATIONS, including the right to sue for past infringement thereof.

ASSIGNOR agrees for itself and its successors, legal representatives and assigns, without further compensation, to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the ASSIGNEE may reasonably request to effectuate fully this assignment.

IN TESTIMONY WHEREOF, ASSIGNOR has caused this Assignment to be executed by its duly authorized officer.

(ASSIGNOR) Atheros Powerline LLC

By Dana Jones

Title DIRECTOR + MEMBERS

Date 5/11/2010

ASSIGNEE hereby acknowledges receipt of the entire right, title and interest in and to the SOLELY PATENTS AND PATENT APPLICATIONS and of the entire right, title and interest in and to, with respective designated parties, the JOINTLY OWNED PATENTS AND PATENT APPLICATIONS.

(ASSIGNEE) Atheros Communications, Inc.

By Alan A. Z...

Title VP + General Counsel

Date MARCH 11, 2010

**Schedule A**

Country	Ref #	Filed	Serial #	Issued	Patent #
UNITED STATES	04838-0004001	8/23/1989	07/397,803	2/18/1992	5,090,024
UNITED STATES	04838-0004002	10/11/1991	07/775,279		
UNITED STATES	04838-0004003	12/20/1991	07/810,969		
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CANADA	04838-0004CA1	8/22/1990	2023821	11/28/2000	2023821
GERMANY	04838-0004DE1	8/21/1990	90309129.6	2/12/2003	69034041.9
EUROPEAN PATENT	04838-0004EP1	8/21/1990	90309129.6	2/12/2003	419047
FRANCE	04838-0004FR1	8/21/1990	90309129.6	2/12/2003	419047
UNITED KINGDOM	04838-0004GB1	8/21/1990	90309129.6	2/12/2003	419047
JAPAN	04838-0004JP1	8/23/1990	2-222335	9/18/1998	2828493
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JAPAN	04838-0005JP1	7/29/1993	6-505425		
SOUTH KOREA	04838-0005KR1	7/29/1993	95-700396		
WIPO	04838-0005WO1	7/29/1993	PCT/US93/07125		
UNITED STATES	04838-0006001	5/8/1992	07/880,545	11/18/1993	5,263,046
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JAPAN	04838-0041JP1	1/20/2000 2000-595449		
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SOUTH KOREA	04838-0044KR1	8/21/2000 10-2001-7011707	6/17/2008	840831
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UNITED KINGDOM	04838-0046GB1	4/25/2000 926328.6	6/11/2008	1181797
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WIPO	04838-0046WO1	4/25/2000 PCT/US00/11032		
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UNITED KINGDOM	04838-0047GB1	4/25/2000 928396.1	12/28/2005	1183774
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JAPAN	04838-0050JP1	5/18/2001 2001-585434		
WIPO	04838-0050WD1	5/18/2001 PCT/US01/40777		
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UNITED STATES	04838-0093001	8/10/2005	11/200,910	9/22/2009	7,592,880
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SOUTH KOREA	04838-0093KR1	8/10/2006	10-2008-7005678		
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EUROPEAN PATENT	04838-0101EP1	7/27/2006 6849804.7
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EUROPEAN PATENT	04838-0118EP2	5/9/2008 9176939.6
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WIPO	04838-0145WO1	11/12/2009	PCT/US2009/064134		
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UNITED STATES	ATH-0585	3/17/1997	08/818,457	7/7/1998	5,777,544
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UNITED STATES	ATH-0587 (PRV)	9/25/2002	60/413,388		
UNITED STATES	ATH-0588	9/23/2003	10/669,133		
UNITED STATES	ATH-0587 (PRV)	9/25/2002	60/413,292		

**Schedule B****Jointly Owned Patents***Jointly owned with designated parties: CopperGate Communications LTD, and Sharp Corporation*

Country	Patent No.	Title	Filing Date
United States	7,558,294	Time Synchronization In A Network	7/7/2009

**Published Jointly Owned Applications***Jointly owned with designated parties: CopperGate Communications LTD, and Sharp Corporation*

Country/Region	Application No.	Title	Filing Date
United States	11/337,946	Communicating In A Network That Includes A Medium Having Varying Transmission Characteristics	1/23/2006
United States	12/628,507	Communicating In A Network That Includes A Medium Having Varying Transmission Characteristics	12/1/2009
China	200610107587.1	Communicating In A Network That Includes A Medium Having Varying Transmission Characteristics	7/27/2006
Europe	06253916.8	Power Line Communication System	7/27/2006
Japan	2006-205200	Communicating In A Network That Includes A Medium Having Varying Transmission Characteristics	7/27/2006
South Korea	10-2006-0069199	Communicating In A Network That Includes A Medium Having Varying Transmission Characteristics	7/24/2006
United States	11/337,963	Managing Contention-Free Time Allocations In A Network	1/23/2006
Australia	2006272582	Managing Contention-Free Time Allocations In A Network	7/27/2006
Canada	2616610	Managing Contention-Free Time Allocations In A Network	7/27/2006
China	200680035280.3	Managing Contention-Free Time Allocations In	7/27/2006

Country/Region	Application No.	Title	Priority Date
		A Network	
Europe	06788769.5	Managing Contention-Free Time Allocations In A Network	7/27/2006
Japan	2008-524185	Managing Contention-Free Time Allocations In A Network	7/27/2006
United States	12/431,433	Time Synchronization In A Network	4/28/2009
China	2006CN-80035555	Managing spectra of modulated signals in a communication network	2006-07-24
China	2006CN-80035565	Managing spectra of modulated signals in a communication network	2006-07-24
China	2006CN-80035606	Communicating schedule and network information in a powerline network	2006-07-24
Europe	2006EP-0788309	Bandwidth Management In A Powerline Network	2006-07-24
Europe	2006EP-0788300	Flexible Scheduling Of Resources In A Noisy Environment	2006-07-24
Europe	2006EP-0788301	Communicating Schedule And Network Information In A Powerline Network	2006-07-24
Japan	2008JP-0524027	Flexible Scheduling Of Resources In A Noisy Environment	2006-07-24
Japan	2008JP-0524028	Flexible Scheduling Of Resources In A Noisy Environment	2006-07-24
Japan	2008JP-0524029	Flexible Scheduling Of Resources In A Noisy Environment	2006-07-24
Korea	2008KR-7004684	Bandwidth Management In A Powerline Network	2008-02-27
Korea	2008KR-7004685	Flexible Scheduling Of Resources In A Noisy Environment	2008-02-27
Korea	2008KR-7004686	Communicating Schedule And Network Information In A Powerline Network	2008-02-27
United States	11/420432	Method For Providing Requested Quality Of	2006-05-25

Country/Region	Application No.	Title	Filing Date
		Service	
United States	11/421155	Synchronizing Channel Sharing With Neighboring Networks	2006-05-31
United States	11/492487	Communicating schedule and network information in a powerline network	2006-07-24
United States	11/492505	Bandwidth management in a powerline network	2006-07-24
United States	11/492506	Flexible scheduling of resources in a noisy environment	2006-07-24

*Jointly owned with designated party: Sharp Corporation*

Country/Region	Application No.	Title	Filing Date
United States	11/420,945	Coexistence Of Access Provider And In-Home Networks	05-30-2006

*Jointly owned with designated parties: Panasonic Corporation, Arkados, Inc., Gige Semiconductor, HiSilicon Technologies LTD, and Spidcom Technologies*

Country/Region	Application No.	Title	Filing Date
United States	12/485,468	Managing Coexistence Among Signaling Protocols on a Shared Medium	06-16-2009
PCT	US2009/47530	Managing Coexistence Among Signaling Protocols on a Shared Medium	06-16-2009

*Jointly owned with designated party: MainNet Communications LTD*

Country/Region	Application No.	Title	Filing Date
United States	12/133,270	Distributed Scheduling	06/04/2008



Country/Patent	Application No.	Title	Filing Date
PCT	US2008/065811	Distributed Scheduling	06/04/2008