

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Atheros Powerline LLC	03/11/2010
RECEIVING PARTY DATA	
Name:	Atheros Communications, Inc.
Street Address:	5480 Great America Parkway
City:	Santa Clara
State/Country:	CALIFORNIA
Postal Code:	95054
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13623579
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:	112320C1
NAME OF SUBMITTER:	Becky Talash
Total Attachments: 17 source=1 12320C1 SignedAssignment 3#page1.tif source=1 12320C1 SignedAssignment 3#page2.tif source=1 12320C1 SignedAssignment 3#page3.tif source=1 12320C1 SignedAssignment 3#page4.tif	

OP \$40.00 13623579

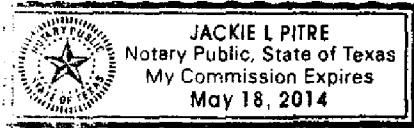
source=112320C1 SignedAssignment 3#page5.tif
source=112320C1 SignedAssignment 3#page6.tif
source=112320C1 SignedAssignment 3#page7.tif
source=112320C1 SignedAssignment 3#page8.tif
source=112320C1 SignedAssignment 3#page9.tif
source=112320C1 SignedAssignment 3#page10.tif
source=112320C1 SignedAssignment 3#page11.tif
source=112320C1 SignedAssignment 3#page12.tif
source=112320C1 SignedAssignment 3#page13.tif
source=112320C1 SignedAssignment 3#page14.tif
source=112320C1 SignedAssignment 3#page15.tif
source=112320C1 SignedAssignment 3#page16.tif
source=112320C1 SignedAssignment 3#page17.tif

Notarial Certificate

I, the undersigned, Jackie L. Pitre do hereby certify:

- (F) That attached hereto is a true copy of the Patent Assignment made by and between Atheros Powerline LLC (assignor) and Atheros Communications, Inc. (assignee).

This 1st day of June, 2011.





Notary Public

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 David Jones

Title DIRECTOR + MEMBERS

Date 3/11/2010

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		
UNITED STATES	04838-0004004	5/22/1995	08/445,931	11/12/1996	5,574,748
AUSTRALIA	04838-0004AU1	8/15/1990	61035/90	7/12/1994	647406
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
UNITED STATES	04838-0005001	10/4/1993	08/131,031	10/25/1994	5,359,625
AUSTRALIA	04838-0005AU1	7/29/1993	47912/93	4/29/1997	674695
CANADA	04838-0005CA1	7/29/1993	2139227		
EUROPEAN PATENT	04838-0005EP1	7/29/1993	93918481.8		
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	11/16/1993	5,263,046
UNITED STATES	04838-0007001	4/3/1992	07/863,213	1/11/1994	5,278,862
UNITED STATES	04838-0023001	7/10/1996	08/677,987	8/11/1998	5,793,820

WIPO	04838-0023WO1	6/23/1997	PCT/US97/10881		
UNITED STATES	04838-0040001	2/22/1999	09/255,164		
UNITED STATES	04838-0041001	1/20/1999	09/234,289	8/29/2000	6,111,919
CANADA	04838-0041CA1	1/20/2000	2358931	9/8/2009	2358931
EUROPEAN PATENT	04838-0041EP1	1/20/2000	909936.7		
JAPAN	04838-0041JP1	1/20/2000	2000-595449		
WIPO	04838-0041WO1	1/20/2000	PCT/US00/01399		
UNITED STATES	04838-0044001	8/19/1999	09/377,131	8/21/2001	6,278,685
AUSTRALIA	04838-0044AU1	8/21/2000	70637/00	3/25/2004	768374
BRAZIL	04838-0044BR1	8/21/2000	PI0009118-9		
CANADA	04838-0044CA1	8/21/2000	2366662		
CHINA	04838-0044CN1	8/21/2000	00805522.X	5/7/2008	ZL00805522X
CHINA	04838-0044CN2	8/21/2000	200710139943.2		
EUROPEAN PATENT	04838-0044EP1	8/21/2000	959290.8		
JAPAN	04838-0044JP1	8/21/2000	2001-517738		
SOUTH KOREA	04838-0044KR1	8/21/2000	10-2001-7011707	6/17/2008	840631
SOUTH KOREA	04838-0044KR2	8/21/2000	10-2008-7002356	12/23/2008	876625
MEXICO	04838-0044MX1	8/21/2000	PA/2001/013418	2/11/2005	226221
WIPO	04838-0044WO1	8/21/2000	PCT/US00/22911		
UNITED STATES	04838-0046001	4/26/1999	09/299,810	7/31/2001	6,269,132
CANADA	04838-0046CA1	4/25/2000	2371748	8/5/2008	2371748
GERMANY	04838-0046DE1	4/25/2000	928328.6	6/11/2008	60039167.1

EUROPEAN PATENT	04838-0046EP1	4/25/2000 926328.6	8/11/2008	1181797
FRANCE	04838-0046FR1	4/25/2000 926328.6	6/11/2008	1181797
UNITED KINGDOM	04838-0046GB1	4/25/2000 926328.6	6/11/2008	1181797
JAPAN	04838-0046JP1	4/25/2000 2000-614623		
WIPO	04838-0046WO1	4/25/2000 PCT/US00/11032		
UNITED STATES	04838-0047001	4/26/1999 09/300,752	6/13/2000	6,074,086
CANADA	04838-0047CA1	4/25/2000 2372072	9/29/2009	2372072
GERMANY	04838-0047DE1	4/25/2000 928396.1	12/28/2005	60025200.0-08
EUROPEAN PATENT	04838-0047EP1	4/25/2000 928396.1	12/28/2005	1183774
FRANCE	04838-0047FR1	4/25/2000 928396.1	12/28/2005	1183774
UNITED KINGDOM	04838-0047GB1	4/25/2000 928396.1	12/28/2005	1183774
JAPAN	04838-0047JP1	4/25/2000 2000-614550		
WIPO	04838-0047WO1	4/25/2000 PCT/US00/11165		
UNITED STATES	04838-0048001	12/6/1999 09/455,186	5/28/2002	6,397,368
UNITED STATES	04838-0048002	5/23/2002 10/153,947	4/22/2003	6,553,534
CANADA	04838-0048CA1	12/6/2000 2394526		
EUROPEAN PATENT	04838-0048EP1	12/6/2000 982476.4		
JAPAN	04838-0048JP1	12/6/2000 2001-542467		
WIPO	04838-0048WO1	12/6/2000 PCT/US00/33090		
UNITED STATES	04838-0049001	12/6/1999 09/455,110	8/27/2002	6,442,129
WIPO	04838-0049WO1	12/6/2000 PCT/US00/33088		
UNITED STATES	04838-0050001	5/19/2000 09/574,959	9/11/2001	6,289,000

CANADA	04838-0050CA1	5/18/2001 2408405		
EUROPEAN PATENT	04838-0050EP1	5/18/2001 1939932.8		
JAPAN	04838-0050JP1	5/18/2001 2001-585434		
WIPO	04838-0050WO1	5/18/2001 PCT/US01/40777		
UNITED STATES	04838-0053001	8/4/2000 09/632,303	4/1/2008	7,352,770
UNITED STATES	04838-0053002	3/26/2008 12/055,506		
AUSTRALIA	04838-0053AU1	8/2/2001 57757/01	11/16/2006	784918
BRAZIL	04838-0053BR1	8/6/2001 PI0103970-9		
CANADA	04838-0053CA1	8/2/2001 2354631		
CHINA	04838-0053CN1	8/6/2001 1124016.4	10/22/2008 ZL01124016.4	
EUROPEAN PATENT	04838-0053EP1	7/30/2001 1306523		
JAPAN	04838-0053JP1	8/6/2001 2001-238478		
SOUTH KOREA	04838-0053KR1	8/4/2001 10-2001-0047166	8/3/2007	748202
MEXICO	04838-0053MX1	8/3/2001 PA/2001-007881	2/8/2006	234219
UNITED STATES	04838-0056001	8/4/2000 09/632,596	12/30/2003	6,671,284
WIPO	04838-0056WO1	8/3/2001 PCT/US01/24449		
UNITED STATES	04838-0057001	8/4/2000 09/632,310		
UNITED STATES	04838-0058001	8/4/2000 09/632,595	2/18/2003	6,522,650
WIPO	04838-0058WO1	8/2/2001 PCT/US01/24244		
UNITED STATES	04838-0059001	8/4/2000 09/631,738	6/10/2003	6,577,630
CHINA	04838-0059CN1	8/3/2001 01813873.X	10/26/2005 ZL01813873.X	
GERMANY	04838-0059DE1	8/3/2001 1961887.5	11/4/2009 60140370.3-08	
EUROPEAN PATENT	04838-0059EP1	8/3/2001 1961887.5	11/4/2009	1312186

EUROPEAN PATENT	04838-0059EP2	8/3/2001	9174786.5		
FRANCE	04838-0059FR1	8/3/2001	1961887.5	11/4/2009	1312186
UNITED KINGDOM	04838-0059GB1	8/3/2001	1961887.5	11/4/2009	1312186
SOUTH KOREA	04838-0059KR1	8/3/2001	10-2003-7001639	11/28/2008	871622
WIPO	04838-0059WO1	8/3/2001	PCT/US01/24446		
UNITED STATES	04838-0060001	8/4/2000	09/632,775	12/23/2008	7,469,297
UNITED STATES	04838-0061001	8/4/2000	09/632,867	11/20/2007	7,298,691
AUSTRALIA	04838-0061AU1	8/2/2001	57758/01	3/2/2006	783585
BRAZIL	04838-0061BR1	8/6/2001	PI0104146.0		
CANADA	04838-0061CA1	8/1/2001	2354731		
CHINA	04838-0061CN1	8/6/2001	1124017.2	4/16/2008	ZL01124017.2
GERMANY	04838-0061DE1	7/31/2001	1306553.7	3/30/2005	60109689.4-08
EUROPEAN PATENT	04838-0061EP1	7/31/2001	1306553.7	3/30/2005	1178634
FRANCE	04838-0061FR1	7/31/2001	1306553.7	3/30/2005	1178634
UNITED KINGDOM	04838-0061GB1	7/31/2001	1306553.7	3/30/2005	1178634
JAPAN	04838-0061JP1	8/6/2001	2001-238479		
SOUTH KOREA	04838-0061KR1	8/4/2001	10-2001-0047165	7/25/2007	744591
MEXICO	04838-0061MX1	8/3/2001	PA/2001-007882	2/9/2006	234254
UNITED STATES	04838-0062001	8/4/2000	09/632,609	6/14/2005	6,907,044
CHINA	04838-0062CN1	8/2/2001	1813872.1		
EUROPEAN PATENT	04838-0062EP1	8/2/2001	1959518		
SOUTH KOREA	04838-0062KR1	8/2/2001	2003-7001640	6/22/2007	733436

WIPO	04838-0062WO1	8/2/2001 PCT/US01/24503		
UNITED STATES	04838-0063001	8/4/2000 09/632,868	1/17/2006	6,987,770
WIPO	04838-0063WO1	8/3/2001 PCT/US01/24403		
UNITED STATES	04838-0064001	8/4/2000 09/632,597	6/21/2005	6,909,723
WIPO	04838-0064WO1	8/2/2001 PCT/US01/24505		
UNITED STATES	04838-0066001	6/26/2002 10/180,176		
UNITED STATES	04838-0067001	6/26/2002 10/180,171	10/10/2006	7,120,847
UNITED STATES	04838-0068001	6/26/2002 10/180,175		
UNITED STATES	04838-0070P01	10/21/2002 60/420,071		
UNITED STATES	04838-0075001	10/21/2003 10/695,371	11/24/2009	7,623,542
EUROPEAN PATENT	04838-0075EP1	10/21/2003 3776498.2		
UNITED STATES	04838-0075P01	9/18/2003 60/504,733		
WIPO	04838-0075WO1	10/21/2003 PCT/US03/33442		
UNITED STATES	04838-0076001	11/20/2003 10/720,016	10/9/2007	7,281,187
UNITED STATES	04838-0077001	11/24/2003 10/720,742		
AUSTRALIA	04838-0077AU1	11/22/2004 2004310448		
CANADA	04838-0077CA1	11/22/2004 2546574		
CHINA	04838-0077CN1	11/22/2004 200480034769.X		
EUROPEAN PATENT	04838-0077EP1	11/22/2004 4811966.3		
JAPAN	04838-0077JP1	11/22/2004 2006-541661		
SOUTH KOREA	04838-0077KR1	11/22/2004 10-2006-7012758		
WIPO	04838-0077WO1	11/22/2004 PCT/US2004/039345		
UNITED STATES	04838-0078001	3/3/2005 11/071,059	12/22/2009	7,636,370

UNITED STATES	04838-0079001	2/3/2004	10/771,136		
UNITED STATES	04838-0081001	2/26/2004	10/787,544		
CHINA	04838-0081CN1	2/28/2005	200510052B14.0		
EUROPEAN PATENT	04838-0081EP1	2/28/2005	5251166.4		
JAPAN	04838-0081JP1	2/25/2005	2005-051492		
UNITED STATES	04838-0085001	5/15/2002	10/145,151	10/2/2007	7,277,511
UNITED STATES	04838-0086001	8/21/2001	09/932,945		
UNITED STATES	04838-0087001	4/17/2002	10/123,141	10/3/2006	7,116,745
UNITED STATES	04838-0087002	8/24/2006	11/466,830	4/15/2008	7,359,442
UNITED STATES	04838-0088001	6/24/2002	10/177,663	2/5/2008	7,327,794
UNITED STATES	04838-0089001	7/8/2002	10/189,548	6/29/2004	6,756,772
UNITED STATES	04838-0090001	3/20/2003	10/391,776		
WIPO	04838-0090WO1	3/22/2004	PCT/CA2004/000422		
UNITED STATES	04838-0092001	5/12/2005	11/127,401	9/15/2009	7,590,183
UNITED STATES	04838-0092002	8/5/2009	12/536,263		
UNITED STATES	04838-0093001	8/10/2005	11/200,910	9/22/2009	7,592,880
UNITED STATES	04838-0093002	8/13/2009	12/540,521		
CHINA	04838-0093CN1	8/10/2006	200680037729 X		
EUROPEAN PATENT	04838-0093EP1	8/10/2006	6789693.6		
SOUTH KOREA	04838-0093KR1	8/10/2006	10-2008-7005678		
WIPO	04838-0093WO1	8/10/2006	PCT/US2006/031315		
UNITED STATES	04838-0094001	8/10/2005	11/200,555		

CHINA	04838-0094CN1	8/10/2006 200680037641 8
EUROPEAN PATENT	04838-0094EP1	8/10/2006 6789690.2
SOUTH KOREA	04838-0094KR1	8/10/2006 10-2008-7005662
WIPO	04838-0094WO1	8/10/2006 PCT/US2006/031312
UNITED STATES	04838-0097001	2/3/2006 11/347.002
UNITED STATES	04838-0101001	6/22/2006 11/472.804
AUSTRALIA	04838-0101AU1	7/27/2006 2006336351
BRAZIL	04838-0101BR1	7/27/2006 PI0614124-2
CANADA	04838-0101CA1	7/27/2006 2616855
CHINA	04838-0101CN1	7/27/2006 200680035267 8
EUROPEAN PATENT	04838-0101EP1	7/27/2006 6849804.7
JAPAN	04838-0101JP1	7/27/2006 2008-524147
SOUTH KOREA	04838-0101KR1	7/27/2006 10-2008-7004481
MEXICO	04838-0101MX1	7/27/2006 MX/a/2008/001252
WIPO	04838-0101WO1	7/27/2006 PCT/US2006/029213
UNITED STATES	04838-0103001	7/26/2006 11/493,382
AUSTRALIA	04838-0103AU1	7/27/2006 2006272469
CANADA	04838-0103CA1	7/27/2006 2617148
EUROPEAN PATENT	04838-0103EP1	7/27/2006 6788973.3
JAPAN	04838-0103JP1	7/27/2006 2008-524255
WIPO	04838-0103WO1	7/27/2006 PCT/US2006/029718
UNITED STATES	04838-0104RX1	12/1/2005 99/007.834
UNITED STATES	04838-0107001	7/10/2006 11/484.542

UNITED STATES	04838-0107P01	3/7/2006 60/780,132
WIPO	04838-0107WO1	3/7/2007 PCT/US2007/063472
UNITED STATES	04838-0110001	12/21/2006 11/614,729
EUROPEAN PATENT	04838-0110EP1	11/20/2007 7864635.3
WIPO	04838-0110WO1	11/20/2007 PCT/US2007/085189
UNITED STATES	04838-0114001	12/17/2008 12/337,009
UNITED STATES	04838-0114P01	12/18/2007 61/014,631
WIPO	04838-0114WO1	12/18/2008 PCT/US2008/087454
UNITED STATES	04838-0118001	5/9/2008 12/118,613
EUROPEAN PATENT	04838-0118EP1	5/9/2008 8755225.3
EUROPEAN PATENT	04838-0118EP2	5/9/2008 9176939.8
SOUTH KOREA	04838-0118KR1	5/9/2008 10-2009-7025841
UNITED STATES	04838-0118P01	5/10/2007 60/917,232
WIPO	04838-0118WO1	5/9/2008 PCT/US2008/063226
UNITED STATES	04838-0119P01	6/4/2007 60/941,949
WIPO	04838-0119WO1	6/4/2008 PCT/US2008/065831
UNITED STATES	04838-0123001	6/4/2008 12/133,315
UNITED STATES	04838-0124001	6/4/2008 12/133,233
UNITED STATES	04838-0125001	6/4/2008 12/132,974
UNITED STATES	04838-0126001	4/23/2008 12/108,334
UNITED STATES	04838-0127001	6/4/2008 12/133,301
UNITED STATES	04838-0128001	1/7/2008 11/970,271

UNITED STATES	04838-0129001	1/7/2008	11/970,297		
UNITED STATES	04838-0130001	1/7/2008	11/970,323		
UNITED STATES	04838-0131001	6/4/2008	12/133,312		
UNITED STATES	04838-0132001	6/4/2008	12/133,325		
UNITED STATES	04838-0133001	1/9/2008	11/971,446		
UNITED STATES	04838-0134001	1/7/2008	11/970,339		
UNITED STATES	04838-0136001	7/20/2009	12/505,773		
UNITED STATES	04838-0138001	4/9/2009	12/421,543		
UNITED STATES	04838-0138P01	4/9/2008	61/043,581		
UNITED STATES	04838-0139001	5/28/2009	12/473,456		
UNITED STATES	04838-0139P01	5/30/2008	61/057,794		
UNITED STATES	04838-0145001	11/12/2009	12/617,032		
UNITED STATES	04838-0145P01	11/14/2008	61/114,845		
WIPO	04838-0145WO1	11/12/2009	PCT/US2009/064134		
UNITED STATES	04838-0148P01	12/31/2008	61/141,984		
UNITED STATES	04838-0155001	4/9/2009	12/421,452		
WIPO	04838-0155WO1	4/9/2009	PCT/US2009/040078		
UNITED STATES	ATH-0585	3/17/1997	08/818,457	7/7/1998	5,777,544
UNITED STATES	ATH-0586	8/4/1997	08/905,904	3/7/2000	6,034,988
UNITED STATES	ATH-0587	9/23/2003	10/669,097	5/5/2009	7,529,372
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	Issue 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	Pub. No.	Title	Pub. 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

PATENT INFORMATION			
Country	Patent No.	Patent Title	Issue 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

PATENT INFORMATION			
Country	Patent No.	Service	Effective Date
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

PATENT INFORMATION			
Country	Patent No.	Service	Effective 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

PATENT INFORMATION			
Country	Patent No.	Service	Effective 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

PATENT INFORMATION			
Country	Patent No.	Service	Effective Date
United States	12/133,270	Distributed Scheduling	06/04/2008

PCT	US2008/065811	Distributed Scheduling	06/04/2008
-----	---------------	------------------------	------------