

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Firethorn Mobile, Inc.	10/17/2012
RECEIVING PARTY DATA	
Name:	QUALCOMM Incorporated
Street Address:	5775 Morehouse Drive
City:	San Diego
State/Country:	CALIFORNIA
Postal Code:	92121-1714
PROPERTY NUMBERS Total: 35	
Property Type	Number
Patent Number:	8160959
Patent Number:	8145568
Patent Number:	8121945
Application Number:	11428860
Application Number:	11428861
Application Number:	11428864
Application Number:	11428866
Application Number:	11428874
Application Number:	12437475
Application Number:	12562576
Application Number:	12717620
Application Number:	12841914
Application Number:	12851716
Application Number:	12851724
Application Number:	12862606

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Application Number:	12945601
Application Number:	13004686
Application Number:	13048060
Application Number:	13048422
Application Number:	13153215
Application Number:	13167252
Application Number:	13177973
Application Number:	13212950
Application Number:	13248937
Application Number:	13294549
Application Number:	13348763
Application Number:	13363592
Application Number:	13481766
Application Number:	13492992
Application Number:	13586143
Application Number:	13600698
Application Number:	13618787
Application Number:	61570370
Application Number:	61585714
Application Number:	61611344

CORRESPONDENCE DATA

Fax Number: 8586582502

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: (858) 651-5205

Email: usdocketing@qualcomm.com

Correspondent Name: QUALCOMM Incorporated

Address Line 1: 5775 Morehouse Drive

Address Line 4: San Diego, CALIFORNIA 92121-1714

ATTORNEY DOCKET NUMBER:	080643 ET AL.
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NAME OF SUBMITTER:	Karen M Cruz
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Total Attachments: 7

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PATENT
REEL: 029184 FRAME: 0437

PATENT ASSIGNMENT

WHEREAS, Firethorn Mobile, Inc., a Delaware corporation, having a place of business located at 3333 Piedmont Rd NE, Suite 300, Atlanta GA 30305 (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 _____ day of _____, 2012.

Firethorn Mobile, Inc.

By: Rhonda S. Meyer

Rhonda S. Meyer
Assistant Secretary

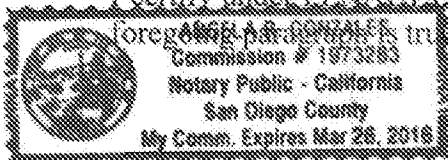
State of California)
County of San Diego) ss.

On October 17, 2012, before me, Angela R. Gonzales, Notary Public
Date Name of Notary Public

personally appeared Rhonda S. Meyer
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 is true and correct.



WITNESS my hand and official seal.

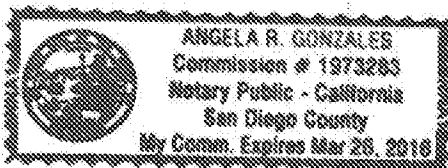
Angela R. Gonzales

IN WITNESS WHEREOF, acknowledged and accepted on this 21st day of October, 2012.

QUALCOMM Incorporated

By: [Signature]

Timothy F. Loomis
V.P., Patent Counsel



SCHEDULE A

Patent Reference	Jurisdiction	Status	Filed Date	Application Number	Grant Date	Patent Number
081927P1	United States of America	Expired	26-Aug-2008	61/091,770		
080643EP	European Patent	Do Not Pursue	6-Jul-2008	08103115.5		
080635EP	European Patent	Abandoned	6-Jul-2008	08103079.9		
080638EP	European Patent	Do Not Pursue	6-Jul-2008	08103081.8		
080637EP	European Patent	Do Not Pursue	6-Jul-2008	08103086.8		
080638EP	European Patent	Do Not Pursue	6-Jul-2008	08103086.8		
080640EP	European Patent	Abandoned	6-Jul-2008	08103088.3		
080641EP	European Patent	Abandoned	6-Jul-2008	08103102.3		
080629EP	European Patent	Application	6-Jul-2008	08774548.7		
080628VVO	Patent Cooperation Treaty	Expired	6-Jul-2008	PCT/US2008/028399		
080643	United States of America	Granted	6-Jul-2008	11/428,878	21-Feb-2012	8,121,845
080642	United States of America	Granted	6-Jul-2008	11/428,878	27-Mar-2012	8,145,586
080641	United States of America	Allowed	6-Jul-2008	11/428,874		
080640	United States of America	Abandoned	6-Jul-2008	11/428,870		
080639	United States of America	Application	6-Jul-2008	11/428,866		
080638	United States of America	Application	6-Jul-2008	11/428,864		
080637	United States of America	Application	6-Jul-2008	11/428,861		
080636	United States of America	Application	6-Jul-2008	11/428,860		
080635	United States of America	Abandoned	6-Jul-2008	11/428,858		
080636	United States of America	Granted	6-Jul-2008	11/428,857	17-Apr-2012	8,160,868
080642EP	European Patent	Do Not Pursue	6-Jul-2008	08103105.4		
080629CN	China	Application	6-Jul-2008	200880056242.4		
080629BR	Brazil	Application	6-Jul-2008	PI0621892.8		
080629CA	Canada	Application	6-Jul-2008	2656989		
080629IN	India	Application	6-Jul-2008	281/MUMNP/2008		
080629JP	Japan	Application	6-Jul-2008	2009-518081		
080629KR	Korea, Republic of (KR)	Application	6-Jul-2008	10-2009-7052486		
080629RU	Russian Federation	Allowed	6-Jul-2008	2008103912		
080629SG	Singapore	Do Not Pursue	6-Jul-2008	200809499.2		
080666P1	United States of America	Expired	17-Nov-2008	61/115,453		
080666P2	United States of America	Expired	17-Nov-2008	61/115,454		
080625JP01	Japan	Application	17-Feb-2010	2010-032276		
081927	United States of America	Application	7-May-2009	12/437,475		
080629KR01	Korea, Republic of (KR)	Do Not Pursue	15-Jun-2009	10-2009-7012382		
081827VVO	Patent Cooperation Treaty	Expired	7-Jul-2009	PCT/US2008/046786		
080666U1	United States of America	Application	18-Sep-2009	12/562,576		
080666U2	United States of America	Do Not Pursue	18-Sep-2009	12/562,583		
081351P1	United States of America	Expired	6-Oct-2009	61/249,157		
081348P1	United States of America	Expired	13-Oct-2009	61/251,231		
080666U1VVO	Patent Cooperation Treaty	Expired	25-Oct-2009	PCT/US2009/061778		
080666U2VVO	Patent Cooperation Treaty	Expired	25-Oct-2009	PCT/US2009/061707		
082934P1	United States of America	Expired	8-Jan-2010	61/282,735		
081349	United States of America	Application	4-Mar-2010	12/717,520		
082933P1	United States of America	Expired	8-Mar-2010	61/311,523		
082936P1	United States of America	Expired	8-Mar-2010	61/311,530		
102153P1	United States of America	Expired	3-Jul-2010	61/381,108		
082936	United States of America	Application	22-Jul-2010	12/841,914		
082934	United States of America	Application	8-Aug-2010	12/851,724		
082833	United States of America	Application	8-Aug-2010	12/851,716		
081351	United States of America	Application	24-Aug-2010	12/862,938		
102040P1	United States of America	Expired	20-Sep-2010	61/394,539		
102041P1	United States of America	Expired	22-Oct-2010	61/405,722		
102040	United States of America	Application	12-Nov-2010	12/945,601		
102598P1	United States of America	Expired	8-Nov-2010	61/411,584		
081827CN	China	Application	7-Jul-2009	200980134263.8		
081827EP	European Patent	Application	7-Jul-2009	09811899.5		
081927IN	India	Application	7-Jul-2009	128/MUMNP/2011		
081927JP	Japan	Application	7-Jul-2009	2011-525838		
081927KR	Korea, Republic of (KR)	Application	7-Jul-2009	2011-7007657		
110534P1	United States of America	Expired	13-Dec-2010	61/422,508		
103317	United States of America	Application	15-Mar-2011	13/048,069		
110307P1	United States of America	Expired	7-Feb-2011	61/440,381		

SCHEDULE A

Patent Reference	Jurisdiction	Status	Filed Date	Application Number	Grant Date	Patent Number
110534P2	United States of America	Expired	31-Jan-2011	61/436,164		
092934WO	Patent Cooperation Treaty	Expired	5-Jan-2011	PCT/US2011/020226		
102153	United States of America	Application	11-Jan-2011	13/004,666		
090668U1CN	China	Application	23-Oct-2009	200980144457.7		
090668U1EP	European Patent	Application	23-Oct-2009	09748165.7		
090668U1IN	India	Application	23-Oct-2009	752/MUMNP/2011		
090668U1JP	Japan	Application	23-Oct-2009	2011-536371		
090668U1KR	Korea Republic of (KR)	Application	23-Oct-2009	2011-7013894		
090668U2CN	China	Application	23-Oct-2009	200980144455.8		
090668U2EP	European Patent	Application	23-Oct-2009	09747849.7		
090668U2IN	India	Application	23-Oct-2009	671/MUMNP/2011		
090668U2JP	Japan	Application	23-Oct-2009	2011-536368		
090668U2KR	Korea Republic of (KR)	Application	23-Oct-2009	2011-7013895		
092936WO	Patent Cooperation Treaty	Application	23-Feb-2011	PCT/US2011/025903		
092933WO	Patent Cooperation Treaty	Application	25-Feb-2011	PCT/US2011/026278		
102641	United States of America	Application	15-Mar-2011	13/048,422		
110534P3	United States of America	Expired	21-Mar-2011	61/454,721		
102153WO	Patent Cooperation Treaty	Application	1-Apr-2011	PCT/US2011/030680		
111415	United States of America	Application	26-Sep-2011	13/248,937		
091351WO	Patent Cooperation Treaty	Application	27-Apr-2011	PCT/US2011/034118		
111713P1	United States of America	Expired	17-May-2011	61/487,136		
110534	United States of America	Application	9-Jun-2011	13/183,219		
111713	United States of America	Application	7-Jul-2011	13/177,673		
110597	United States of America	Application	23-Jun-2011	13/167,352		
102598	United States of America	Application	18-Aug-2011	13/212,860		
111415P1	United States of America	Expired	19-Aug-2011	61/525,549		
102041WO	Patent Cooperation Treaty	Application	9-Sep-2011	PCT/US2011/061084		
102598WO	Patent Cooperation Treaty	Application	7-Nov-2011	PCT/US2011/059623		
111713B1	United States of America	Application	11-Nov-2011	13/294,549		
110534WO	Patent Cooperation Treaty	Application	7-Nov-2011	PCT/US2011/059613		
120281	United States of America	Application	1-Feb-2012	13/383,592		
120353	United States of America	Application	13-Jan-2012	13/348,783		
110507WO	Patent Cooperation Treaty	Application	2-Feb-2012	PCT/US2012/023698		
120353P1	United States of America	Application	14-Dec-2011	61/576,370		
120281P1	United States of America	Application	13-Jan-2012	61/585,714		
103317WO	Patent Cooperation Treaty	Application	12-Mar-2012	PCT/US2012/026778		
111713B1WO	Patent Cooperation Treaty	Application	31-Jan-2012	PCT/US2012/023364		
090629KR02	Korea Republic of (KR)	Application	29-Feb-2012	10-2012-7005590		
121790P1	United States of America	Application	15-Mar-2012	61/611,344		
121790	United States of America	Application	25-May-2012	13/461,766		
092934CN	China	Application	5-Jan-2011	201180005135.1		
092934EP	European Patent	Application	5-Jan-2011	11700207.1		
092934IN	India	Application	5-Jan-2011	1590/MUMNP/2012		
092934JP	Japan	Application	5-Jan-2011	PENDING		
092934KR	Korea Republic of (KR)	Application	5-Jan-2011	2012-7020564		
090639C1	United States of America	Application	11-Jun-2012	13/482,692		
090629RU01	Russian Federation	Application	28-Jun-2012	2012127128		
111415WO	Patent Cooperation Treaty	Application	30-Jul-2012	PCT/US2012/047088		
092933CN	China	Application	25-Feb-2011	PENDING		
092933EP	European Patent	Instructed	25-Feb-2011	11707961.8		
092933IN	India	Application	25-Feb-2011	7135/CHENP/2012		
092933JP	Japan	Application	25-Feb-2011	PENDING		
092933KR	Korea Republic of (KR)	Application	25-Feb-2011	2012-7028067		
092936CN	China	Application	23-Feb-2011	PENDING		
092936EP	European Patent	Instructed	23-Feb-2011	PENDING		
092936IN	India	Application	23-Feb-2011	7133/CHENP/2012		
092936JP	Japan	Application	23-Feb-2011	PENDING		
092936KR	Korea Republic of (KR)	Application	23-Feb-2011	2012-7026068		
111713B1B1	United States of America	Application	15-Aug-2012	13/586,143		
121790B1	United States of America	Application	31-Aug-2012	13/690,698		
111713B1C1	United States of America	To Be Filed				
090639C1C1	United States of America	Application	14-Sep-2012	13/618,787		

CALIFORNIA ALL-PURPOSE ACKNOWLEDGEMENT

State of California

County of San Diego

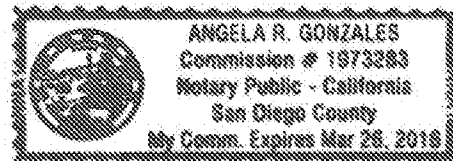
On October 17 before me, Angela Gonzales, Notary Public, personally
appeared Rhonda S. Meyer

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.

Angela Gonzales
Signature



Seal

Optional

DESCRIPTION OF THE ATTACHED DOCUMENT

The document entitled (or described as a) Patent Assignment
, is dated , consists of
pages, and is also signed by

CLAIMED CAPACITY(IES) OF SIGNER(S)

Name of signer
☐ Individual
☐ Corporate Officer
☐ Attorney in Fact
☐ Other

Name of signer
☐ Individual
☐ Corporate Officer
☐ Attorney in Fact
☐ Other

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

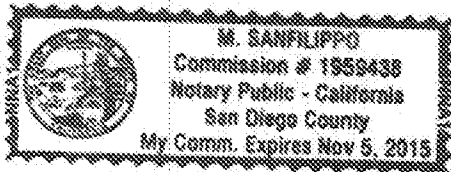
CIVIL CODE § 1189

State of California

County of SAN DIEGO

On OCTOBER 22, 2012 before me, M. SANFILIPPO, NOTARY PUBLIC

personally appeared TIMOTHY F. LCOMIS



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.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

☐ Corporate Officer — Title(s): _____

☐ Individual

☐ Partner — ☐ Limited ☐ General

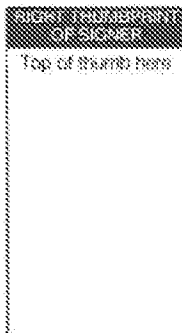
☐ Attorney in Fact

☐ Trustee

☐ Guardian or Conservator

☐ Other: _____

Signer Is Representing: _____



Signer's Name: _____

☐ Corporate Officer — Title(s): _____

☐ Individual

☐ Partner — ☐ Limited ☐ General

☐ Attorney in Fact

☐ Trustee

☐ Guardian or Conservator

☐ Other: _____

Signer Is Representing: _____

