# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3336177

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
JAMES GERARD ZYREN	01/27/2011
SRINIVAS KATAR	01/21/2011
MANJUNATH ANANDARAMA KRISHNAM	01/21/2011
LAWRENCE WINSTON YONGE III	01/21/2011

# **RECEIVING PARTY DATA**

Name:	QUALCOMM INCORPORATED
Street Address:	5775 MOREHOUSE DRIVE
City:	SAN DIEGO
State/Country:	CALIFORNIA
Postal Code:	92121-1714

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14656517

### **CORRESPONDENCE DATA**

**Fax Number:** (281)754-4914

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

**Phone:** 2817580025

Email: sstory@deliziolaw.com
Correspondent Name: DELIZIO LAW, PLLC.
Address Line 1: 15201 MASON RD.
Address Line 2: SUITE 1000-312

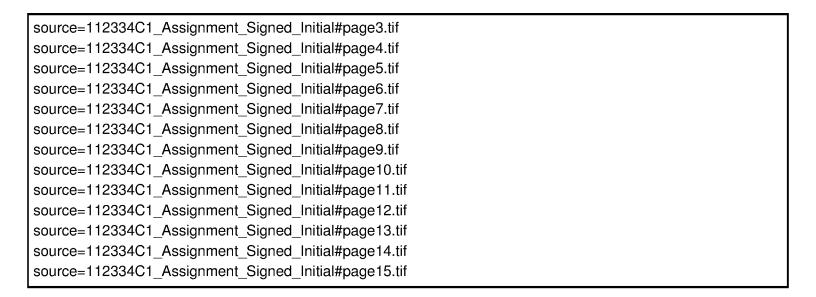
Address Line 4: CYPRESS, TEXAS 77433

ATTORNEY DOCKET NUMBER:	112334C1
NAME OF SUBMITTER:	SANDI STORY
SIGNATURE:	/Sandi Story/
DATE SIGNED:	04/30/2015

**Total Attachments: 15** 

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PATENT 503289559 REEL: 035547 FRAME: 0630



PATENT REEL: 035547 FRAME: 0631

ASSIGNMENT

James Gerard Zyren 13 4/14/15

For valuable consideration, we, James Zyren, of 225 Sea Crest Drive Melbourne Beach, Manjunath Anandarama Krishnarr FL 32951; Srinivas Katar, of 7644 SW 49th Place Gainesville, FL 32608; Manjunath Krishnam, of 2508 SW 35th Place Unit V132 Gainesville FL 32608; Lawrence W. Yonge III. of 8380 Lawrence Winston Yonge. I Juniper Road Ocala, FL 34480; hereby assign to ATHEROS COMMUNICATIONS, INC., a corporation of Delaware, having a place of business at 1700 Technology Drive San Jose, CA 95110, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled PATH CHARACTERISTIC BASED ASSOCIATION OF COMMUNICATION DEVICES, filed December 29, 2010, and assigned U.S. Serial Number 12/980,758 and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, 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.

Assignment Page 1 of 5

DATE:	JAMES ZYREN  James Gerard Zyren Q3 4/4/15
STATE OF	SS.
COUNTY OF	5.5.
me (or proved to me on the basis of s subscribed to this Assignment, who ack	before me, the undersigned, a notary public for the State resonally appeared JAMES ZYREN personally known to satisfactory evidence) to be the person whose name is nowledged having executed the same in his authorized Assignment, the person or the entity upon behalf of which
WITNESS my hand and official se	eal.
	Notary Public
	Notary Public

DATE:	Jan 21,2011	SRINIVAS KATAR STATE
STATE OF _	FLORIDA ) F_MARION )	SS.
On	there is the control of this Assignment, who are	, before me, the undersigned, a notary public for the State re personally appeared SRINIVAS KATAR personally asis of satisfactory evidence) to be the person whose name is eknowledged having executed the same in his authorized a Assignment, the person or the entity upon behalf of which

WITNESS my hand and official seal.



Moure M. Duch Notary Public

Assignment Page 3 of 5

DATE: Jan 21, 2011 K.A MANJ Manjun	UNATH ARISHNAM ath Anandarama Krishnam
STATE OF Florida ss.	
of Florida, there personally known to me (or proved to me on the lawhose name is subscribed to this Assignment, who authorized capacity and that by his signature on the behalf of which he acted, executed this Assignment.	acknowledged having executed the same in his his Assignment, the person or the entity upon
WITNESS my hand and official seal.	
Note:	Moura M. Dent ry Public

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DATE: JEA ZY 2211	LAWRENCE W. YONGE III Lawrence Winston Yonge, III
STATE OF Floride ) COUNTY OF Agrica )	. <b>&amp;</b> &
COUNTY OF Agrica	; 30.
personally known to me (or proved to whose name is subscribed to this Assign	, before me, the undersigned, a notary public for the State re-personally appeared LAWRENCE W. YONGE III me on the basis of satisfactory evidence) to be the person nment, who acknowledged having executed the same in his gnature on this Assignment, the person or the entity upor Assignment.
WITNESS my hand and official	scal.
	Muss M. Deal Notary Public

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# **ASSIGNMENT**

James Gerard Zyren

For valuable consideration, we. <del>James Zyren, of 225</del> Sea Crest Drive Melbourne Beach, 8AK Manjunath Anandarama Krishna FL 32951; Sriniyas Katar, of 7644 SW 49th Place Gainesville, FL 32608; Maniumath Krishnam, of 2508 SW 35th Place Unit V132 Gainesville FL 32608; Lawrence W. Yonge Hf., of 8380 Lawrence Winston Yonge. Juniper Road Ocala, FL 34480; hereby assign to ATHEROS COMMUNICATIONS, INC., a corporation of Delaware, having a place of business at 1700 Technology Drive San Jose, CA 95110, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, emitted PATH CHARACTERISTIC BASED ASSOCIATION OF COMMUNICATION DEVICES, filed December 29, 2010, and assigned U.S. Serial Number 12/980,758 , and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, 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.

Assignment Page 1 of 5

PATENT REEL: 035547 FRAME: 0637

DATE:	JAMES ZYREN James Gerard Zyren
STATE OF	
COUNTY OF	) SS. )
of me (or proved to me on the subscribed to this Assignmen	

Notary Public

Attorney Docket No.: 04838-0170001 ATH-0669

DATE:	Jan 21,2011	SRINIVAS KATAR JOY
STATE OF	FLORIDA OF MARION	) ) SS.
On of <u>F</u>	Jan 21, 2 - 1/ - 1/2 - 1/	, before me, the undersigned, a notary public for the State are personally appeared SRINIVAS KATAR personally
subscribed capacity an	to this Assignment, who a	asis of satisfactory evidence) to be the person whose name is acknowledged having executed the same in his authorized is Assignment, the person or the entity upon behalf of which

WITNESS my hand and official seal.



Morary Public 4. Mach

	MK 3/18/2015
DATE: Jan 21, 2011	K.A. Manymerly MANUNATHARISINAM
	Manjunath Anandarama Krishnam
personally known to me (or proved to n	, before me, the undersigned, a notary public for the State re personally appeared MANJUNATH KRISHNAM ne on the basis of satisfactory evidence) to be the person ment, who acknowledged having executed the same in his nature on this Assignment, the person or the entity upon

WITNESS my hand and official seal.

Moura M. Dest. Notary Public

M. DUC 200 common

DATE: Jan Zi 2011 LAWRENCE W. YONGE III Lawrence Winston Yonge, III
STATE OF Florida ) SS.  COUNTY OF Acres )
of SCIA 21. 2011, before me, the undersigned, a notary public for the State of FOXIXA, there personally appeared LAWRENCE W. YONGE III personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to this Assignment, who acknowledged having executed the same in his authorized capacity and that by his signature on this Assignment, the person or the entity upon behalf of which he acted, executed this Assignment.

WITNESS my hand and official seal.

Mura M. Derl Notary Public

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REEL: 035547 FRAME: 0641

# ASSIGNMENT

James Gerard Zyren

For valuable consideration, we, James Zyren, of 225 Sea Crest Drive Melbourne Beach, Manjupath Anandarama Krishna FL 32951; Sriniyas Katar, of 7644 SW 49th Place Gainesville, FL 32608; Manjunath Krishnam. of 2508 SW 35th Place Unit V132 Gainesville FL 32608; Lawrence W. Yonge III. of 8380 Lawrence Winston Yonge. Juniper Road Ocala, FL 34480; hereby assign to ATHEROS COMMUNICATIONS, INC., a corporation of Delaware, having a place of business at 1700 Technology Drive San Jose, CA 95110, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled PATH CHARACTERISTIC BASED ASSOCIATION OF COMMUNICATION DEVICES, filed December 29, 2010, and assigned U.S. Serial Number 12/980,758 , and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignce to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, 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.

Assignment Page 1 of 5

DATE:	JAMES ZYREN James Gerard Zyren	14-
STATE OF	)	
COUNTY OF	) SS.	
me (or proved to me on the subscribed to this Assignmen	before me, the undersign there personally appeared JAME: basis of satisfactory evidence) to at, who acknowledged having executure on this Assignment, the person or ment.	S ZYREN personally known to be the person whose name is ted the same in his authorized
WITNESS my hand ar	nd official seal.	
	Notary Public	The state of the s

Assignment Page 2 of 5

DATE: Jan 21,2011	Seivi	verf	Ker
	SRINIVAS KATAR	$\mathcal{Q}_{-}$	
STATE OF FLORIDA	SS.		
COUNTY OF MARION )	<b>3</b> 5.		
of Fands there known to me (or proved to me on the basis subscribed to this Assignment, who ack capacity and that by his signature on this he acted, executed this Assignment.	<ul> <li>personally appeared S</li> <li>of satisfactory evidence;</li> <li>nowledged having execu-</li> </ul>	RINIVAS ) to be the ; ited the sa	KATAR personally person whose name is me in his authorized

Notary Public

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WITNESS my hand and official seal.

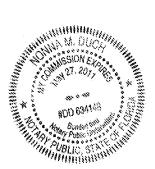
Assignment Page 3 of 5

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STATE OF <u>Florida</u> ) ss			
of	on the <b>bas</b> is of satisfactors, who ack <mark>nowled</mark> ged bure on this Assignment,	ory evidence) t aving executed	o be the person the same in his
WITNESS my hand and official seal			
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DATE: Jan Z1 2011	Y A. M
DATE. SAX CI ZI	LAWRENCE W. YONGE III
	Lawrence Winston Yonge, III LIV Wielic
STATE OF Floride	)
COUNTY OF Agrica	) SS.
•	)
on <u>Jan 21 2011</u>	, before me, the undersigned, a notary public for the State ere personally appeared LAWRENCE W. YONGE III
of FOLIDA, th	ere personally appeared LAWRENCE W. YONGE III
	me on the basis of satisfactory evidence) to be the person
	gument, who acknowledged having executed the same in his ignature on this Assignment, the person or the entity upon
behalf of which he acted, executed this	
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WITNESS my hand and official	ıl seal.

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Assignment Page 5 of 5