

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3336177

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JAMES GERARD ZYREN	01/27/2011
SRINIVAS KATAR	01/21/2011
MANJUNATH ANANDARAMA KRISHNAM	01/21/2011
LAWRENCE WINSTON YONGE III	01/21/2011
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	QUALCOMM INCORPORATED
<b>Street Address:</b>	5775 MOREHOUSE DRIVE
<b>City:</b>	SAN DIEGO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92121-1714
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14656517
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(281)754-4914
<i>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.</i>	
<b>Phone:</b>	2817580025
<b>Email:</b>	sstory@deliziolaw.com
<b>Correspondent Name:</b>	DELIZIO LAW, PLLC.
<b>Address Line 1:</b>	15201 MASON RD.
<b>Address Line 2:</b>	SUITE 1000-312
<b>Address Line 4:</b>	CYPRESS, TEXAS 77433
<b>ATTORNEY DOCKET NUMBER:</b>	112334C1
<b>NAME OF SUBMITTER:</b>	SANDI STORY
<b>SIGNATURE:</b>	/Sandi Story/
<b>DATE SIGNED:</b>	04/30/2015
<b>Total Attachments: 15</b>	
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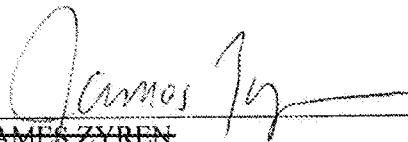
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ASSIGNMENT

James Gerard Zyren *93 4/16/15*

For valuable consideration, we, James Zyren, of 225 Sea Crest Drive Melbourne Beach, 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.

DATE: 1/27/11

  
JAMES ZYREN  
James Gerard Zyren *Q3 4/16/15*

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS.

On \_\_\_\_\_, before me, the undersigned, a notary public for the State of \_\_\_\_\_, there personally appeared JAMES ZYREN 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.

\_\_\_\_\_  
Notary Public

DATE: Jan 21, 2011

Srinivas Kat  
SRINIVAS KATAR

STATE OF FLORIDA )  
 ) SS.  
COUNTY OF MARION )

On Jan 21, 2011, before me, the undersigned, a notary public for the State of Florida, there personally appeared SRINIVAS KATAR 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.

Nonna M. Duch  
Notary Public



DATE: Jan 21, 2011

K.A. Manjunath  
MANJUNATH KRISHNAM  
Manjunath Anandarama Krishnam

STATE OF Florida )  
COUNTY OF Marion ) SS.

On Jan 21, 2011, before me, the undersigned, a notary public for the State of Florida, there personally appeared MANJUNATH KRISHNAM 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.

Nonna M. Duch  
Notary Public



DATE: Jan 21, 2011

Lawrence W. Yonge, III  
LAWRENCE W. YONGE III  
Lawrence Winston Yonge, III

STATE OF Florida )  
COUNTY OF Marion ) SS.

On Jan 21, 2011, before me, the undersigned, a notary public for the State of FLORIDA, 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.

Chana M. Deel  
Notary Public

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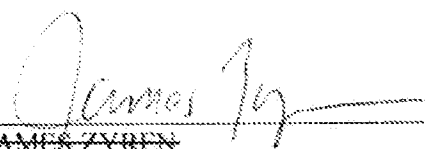
ASSIGNMENT

James Gerard Zyren

For valuable consideration, we, James Zyren, of 225 Sea Crest Drive Melbourne Beach, <sup>WAK 3/26/2</sup>  
FL 32951; Srinivas Katar, of 7644 SW 49th Place Gainesville, FL 32608; Manjunath Krishnam,  
of 2508 SW 35th Place Unit VI32 Gainesville FL 32608; Lawrence W. Yonge III, of 8380 <sup>Manjunath Anandarama Krishnar</sup>  
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.



DATE: 1/17/11

  
JAMES ZYREN  
James Gerard Zyren

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS.

On \_\_\_\_\_, before me, the undersigned, a notary public for the State of \_\_\_\_\_, there personally appeared JAMES ZYREN 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.

\_\_\_\_\_  
Notary Public

DATE: Jan 21, 2011

Srinivas Kat  
SRINIVAS KATAR

STATE OF FLORIDA )  
 ) SS.  
COUNTY OF MARION )

On Jan 21, 2011, before me, the undersigned, a notary public for the State of Florida, there personally appeared SRINIVAS KATAR 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.

Nonna M. Duch  
Notary Public



DATE: Jan 21, 2011

*mk 3/18/2015*  
K. A. Manjunath  
MANJUNATH KRISHNAM  
Manjunath Anandarama Krishnam

STATE OF Florida )  
COUNTY OF Marion ) SS.

On Jan 21, 2011, before me, the undersigned, a notary public for the State of Florida, there personally appeared MANJUNATH KRISHNAM 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.

Norma M. Duch  
Notary Public



DATE: Jan 21, 2011

Lawrence W. Yonge III  
Lawrence Winston Yonge, III

STATE OF Florida )  
COUNTY OF Marion ) SS.

On Jan 21, 2011, before me, the undersigned, a notary public for the State of FLORIDA, 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.

Nonna M. Duch  
Notary Public

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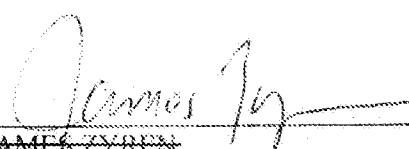


ASSIGNMENT

James Gerard Zyren

For valuable consideration, we, ~~James Zyren~~, of 225 Sea Crest Drive Melbourne Beach, FL 32951; ~~Srinivas Katag~~, 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 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.

DATE: 1/27/11

  
JAMES ZYREN  
James Gerard Zyren

STATE OF \_\_\_\_\_ )  
 ) SS.  
COUNTY OF \_\_\_\_\_ )

On \_\_\_\_\_, before me, the undersigned, a notary public for the State of \_\_\_\_\_, there personally appeared JAMES ZYREN 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.

\_\_\_\_\_  
Notary Public

DATE: Jan 21, 2011

Srinivas Katari  
SRINIVAS KATAR

STATE OF FLORIDA )  
 ) SS.  
COUNTY OF MARION )

On Jan 21, 2011, before me, the undersigned, a notary public for the State of Florida, there personally appeared SRINIVAS KATAR 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.

Nonna M. Duch  
Notary Public



DATE: Jan 21, 2011

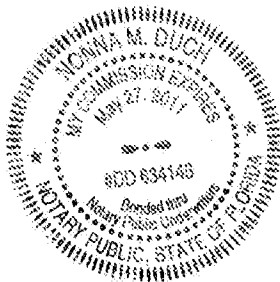
K. A. Manjunath  
MANJUNATH KRISHNAM  
Manjunath Anandarama Krishnam

STATE OF Florida )  
COUNTY OF Marion ) SS.

On Jan 21, 2011, before me, the undersigned, a notary public for the State of Florida, there personally appeared MANJUNATH KRISHNAM 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.

Monna M. Duch  
Notary Public





DATE: Jan 21, 2011

LAWRENCE W. YONGE III

Lawrence Winston Yonge, III

STATE OF Florida

) SS.

COUNTY OF Marion

On Jan 21, 2011, before me, the undersigned, a notary public for the State of FLORIDA, 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.

Chara M. Deel  
Notary Public

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