

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Shuo-Wei Chen	03/31/2009
David Kuochieh Su	03/31/2009
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:	12415878
CORRESPONDENCE DATA	
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Correspondent Name:	BEVER HOFFMAN & HARMS, LLP
Address Line 1:	901 CAMPISI WAY
Address Line 2:	SUITE 370
Address Line 4:	CAMPBELL, CALIFORNIA 95008
ATTORNEY DOCKET NUMBER:	ATH-0312
NAME OF SUBMITTER:	Jeanette S. Harms
Total Attachments: 1	
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OP \$40.00 12415878

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**PATENT**  
**REEL: 022479 FRAME: 0367**

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, we

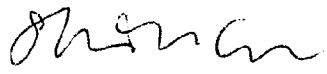
Shuo-Wei Chen of 5480 Great America Parkway Santa Clara, CA 95054  
David Kuochieh Su of 5480 Great America Parkway Santa Clara, CA 95054

hereby sell, assign and transfer to **Atheros Communications, Inc.**, a Delaware corporation, having a place of business at 5480 Great America Parkway Santa Clara, CA 95054, its successors and assigns, the entire right, title and interest throughout the world in our invention in

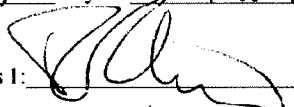
**"FRACTIONAL AND INTEGER PLL ARCHITECTURES"**

for which we will execute a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request the Commissioner of Patents and Trademarks to issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this 31 day of March, 2009

  
**Shuo-Wei Chen**

Signature Witness 1:  
(Print name)

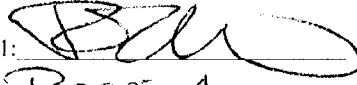
  
**ROBERT ANTONIO**

Signature Witness 2: \_\_\_\_\_  
(Print name)

Executed this 31 day of March, 2009

  
**David Kuochieh Su**

Signature Witness 1:  
(Print name)

  
**ROBERT ANTONIO**

Signature Witness 2: \_\_\_\_\_  
(Print name)