

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Kai Shi</td> <td>08/23/2010</td> </tr> <tr> <td>Ning Zhang</td> <td>08/26/2010</td> </tr> </tbody> </table>		Name	Execution Date	Kai Shi	08/23/2010	Ning Zhang	08/26/2010
Name	Execution Date						
Kai Shi	08/23/2010						
Ning Zhang	08/26/2010						
RECEIVING PARTY DATA							
Name:	Atheros Communications, Inc.						
Street Address:	1700 Technology Drive						
City:	San Jose						
State/Country:	CALIFORNIA						
Postal Code:	95110						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13947653</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13947653		
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Application Number:	13947653						
CORRESPONDENCE DATA							
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Date:	07/22/2013						
Total Attachments: 1 source=ATH-0612-1C-ASGN-Invntrs-to-Atheros#page1.tif							

OP \$40.00 13947653

ASSIGNMENT

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

Kai SHI of 1700 Technology Drive, San Jose, CA 95110
Ning Zhang of 1700 Technology Drive, San Jose, CA 95110

hereby sell, assign and transfer to **Atheros Communications, Inc.**, a Delaware corporation, having a place of business at 1700 Technology Drive, San Jose, CA 95110, its successors and assigns, the entire right, title and interest throughout the world in our invention in

"SINGLE STREAM PHASE TRACKING DURING CHANNEL ESTIMATION IN A VERY HIGH THROUGHPUT WIRELESS MIMO COMMUNICATION SYSTEM"

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 23 day of 2010^{KS} August, 2010. Kai SHI
Kai SHI

Signature Witness 1: ROBERT ANTONIU Signature Witness 2: _____
(Print name) (Print name)

Executed this 26 day of August, 2010. Ning ZHANG
Ning ZHANG

Signature Witness 1: ROBERT ANTONIU Signature Witness 2: _____
(Print name) (Print name)