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To the Director of the United States Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

**Ning Zhang
Athanasios A. Kasapi
William J. McFarland**

Execution Date(s): 03/24/2005, 03/25/2005,
03/24/2005

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

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| <input type="checkbox"/> Executive Order 9424, Confirmatory License | |
| <input type="checkbox"/> Other: _____ | |

2. Name and address of receiving party(ies):

Name: **Atheros Communications, Inc.**

Internal Address:

Street Address: **529 Almanor Avenue**

City/State: **Sunnyvale, CA**

Country: **US** Zip: **94085-3512**

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s): **11/027,280**

B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: **Jeanette S. Harms, Esq.**
Address: **Bever, Hoffman & Harms, LLP**
Street Address: **2099 Gateway Place, Suite 320**
City/State: **San Jose CA** Zip: **95110**
Phone Number: **(408) 451-5907**
Fax Number: **(408) 451-5908**
Email Address: **jharms@beverlaw.com**

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 1.21 (h) & 3.41) \$40.00

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit account number: 50-0574
(Attorney Docket No.: ATH-0163)
Authorized User Name: **Jeanette S. Harms**

9. Signature.

04/21/2005 DBYRNE 00000248 500574 11027280
01 FC:8021 40.00 DA

Jeanette S. Harms

Name of Person Signing

Signature

April 14, 2005

Date

Total number of pages including cover sheet, attachments, and documents: [2]

Documents to be recorded (including cover sheet) should be faxed to; (703) 306-5995, or mailed to;
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

ASSIGNMENT

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

Ning Zhang of 231 Dixon Landing Road, Apt. #288, Milpitas, CA 95035
Athanasios A. Kasapi of 126 Ord Street, San Francisco, CA 94114
William J. McFarland of 451 Valencia Drive, Los Altos, CA 94022

hereby sell, assign and transfer to **Atheros Communications, Inc.**, a Delaware corporation, having a place of business at 529 Almanor Avenue, Sunnyvale, CA 94085-3512, its successors and assigns, the entire right, title and interest throughout the world in our invention in


"Joint Synchronization And Impairments Estimation Using Known Data Patterns"

for which a United States patent application was filed December 30, 2004, Serial No. 11/027,280 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 26 day of March, 2005.


 Ning Zhang

Signature Witness 1:
 (Print name)



 B.C. Busby

Signature Witness 2:
 (Print name)

Executed this 25 day of March, 2005.



 Athanasios A. Kasapi

Signature Witness 1:
 (Print name)

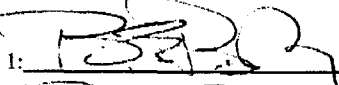

 B.C. Busby

Signature Witness 2:
 (Print name)

Executed this 24 day of March, 2005.


 William J. McFarland

Signature Witness 1:
 (Print name)


 B.C. Busby

Signature Witness 2:
 (Print name)