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

1. Name of conveying party(ies):

Jiwu Liu

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

2. Name and address of receiving party(ies)

Name: Spreadtrum Communications Corporation

Internal Address: \_\_\_\_\_

Street Address: \_\_\_\_\_

810 E. Arques Avenue

City: Sunnyvale

State: California

Country: United States of America Zip: 94085

Additional name(s) & address(es) attached:  Yes  No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): December 9, 2005

Assignment  Merger  Change of Name

Security Agreement  Joint Research Agreement

Government Interest Assignment

Executive Order 9424, Confirmatory License

Other \_\_\_\_\_

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Chun M. Ng  
PERKINS COIE LLP

Internal Address: Atty. Dkt.: 384838034US

Street Address: P.O. Box 1247

City: Seattle

State: WA Zip: 98111-1247

Phone Number: (206) 359-8000

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Email Address: \_\_\_\_\_

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 \_\_\_\_\_

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Authorized User Name \_\_\_\_\_

9. Signature:

Signature

December 9, 2005

Date

Chun M. Ng - 36,878

Name of Person Signing

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

2

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PATENT  
REEL: 017380 FRAME: 0937

**ASSIGNMENT BY INVENTOR**

This Assignment is by Jiwu Liu (the "Assignor"), residing at 3-4F, No. 696, SongTao Road, Zhangjiang High-tech Park, Shanghai, 201203, PEOPLE'S REPUBLIC OF CHINA. The Assignor has invented one or more certain inventions (the "Invention(s)") described in a Patent application for Letters Patent of the United States entitled METHOD FOR CARRIER FREQUENCY OFFSET FINE ESTIMATION IN TD-SCDMA SYSTEM (the "Application"), executed concurrently herewith and naming the Assignor as inventor.

Spreadtrum Communications Corporation, a Corporation of California having its principal place of business at 810 E. Arques Avenue, Sunnyvale, California 94085 ("Assignee"), desires to acquire the entire right, title and interest in and to the Invention(s) and the Application, and in and to any patents (collectively, "Patents") that may be granted for the Invention(s) in the United States or in any foreign countries.

For valuable consideration, the receipt and sufficiency of which Assignor acknowledges, Assignor hereby sells, assigns, and transfers to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to: the Invention(s), the Application, and any Patents; any divisions, continuations, and continuations-in-part of the Application and any other application claiming priority rights from the Application; any reissues, reexaminations, or extensions of any and all Patents; the right to file foreign applications directly in the name of Assignee; and the right to claim priority rights deriving from the Application (collectively, the "Rights"). Assignor warrants that Assignor owns the Rights, and that the Rights are unencumbered. Assignor also agrees to not sign any writing or do any act conflicting with this assignment, and, without further compensation, sign all documents and do such additional acts as Assignee deems necessary or desirable to: perfect Assignee's enjoyment of the Rights; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or defend title to the Rights. Assignor requests the Commissioner of Patents to issue any Patent of the United States that may be issued on the Invention(s) to Assignee. This Assignment may be executed in counterparts.

Date: 2005.12.9

Signature: Jiwu Liu  
Jiwu Liu

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