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08-11-1999



Attorney Docket No.: QCPA839  
Page 1 of 1

TO: The Commissioner of Patents and Tradem

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ent(s) or copy(ies).

**Submission Type**

- New
- Resubmission (Non-Recordation)  
Document ID No.
- Correction of PTO Error  
Reel No. Frame No.
- Corrective Document  
Reel No. Frame No.

**Conveyance Type**

- Assignment
- Change of Name
- License
- Merger
- Security Agreement
- Other:

**Conveying Party(ies)**  
NAME

Mark if additional names are attached

1. FUYUN LING
- 2.
- 3.
- 4.

**EXECUTION DATE**  
Month, Day, Year (MMDDYYYY)  
7/27/99

**Receiving Party**

Mark if additional names are attached

**Name:** QUALCOMM Incorporated  
A Delaware Corporation  
**Address (Street number and name):** 5775 Morehouse Drive  
**Address (City, State, Zip Code):** San Diego, California, 92121-1714

**Correspondent Name and Address**

**Name:** QUALCOMM Incorporated  
Attn: Russell B. Miller  
**Address:** 5775 Morehouse Drive  
**Address:** San Diego, California 92121-1714

**Telephone Number:** (858) 658-4833  
**Facsimile:** (858) 658-2502

**Pages** (Enter the total number of pages of the attached conveyance document including any attachments)

**Total number of pages:** 4

**Application Number(s) or Patent Number(s)**

**Patent Application Number(s):**

1. 09/310,232
- 2.
- 3.
- 4.

**Patent Number(s):**

- 1.
- 2.
- 3.
- 4.

**Patent Cooperation Treaty (PCT)**

(Enter only if a U.S. Application Number has not been assigned)

- |         |         |
|---------|---------|
| 1. PCT/ | 3. PCT/ |
| 2. PCT/ | 4. PCT/ |

**Number of Properties** (Enter the total number of properties involved)

**Total number of properties:** 1

**Fee Amount**

**Fee Amount for Properties Listed (37 CFR 3.41):** \$40.00

Method of Payment:  Enclosed  Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account. A duplicate of this sheet is enclosed for fee processing)

Deposit Account Number: 17-0026

Authorization to charge additional fees:  Yes  No

**Statement and Signature**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Name: Sean English, Reg. No. 37,319 Signature:  Date: 8/3/99

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08/11/1999 NTHA11 00000113 170026 09310232

31 FC:581 40.00 CH

(TRANSASSIGN.VER1.0)

# ASSIGNMENT

TO WHOM IT MAY CONCERN:

For the sum of One Dollar and other valuable consideration to me in hand paid, receipt of which is hereby acknowledged, be it known that I, **FUYUN LING**, a citizen of the United States having a place of residence at 11382 Wills Creek Road, San Diego, California 92131; have sold, assigned and transferred and by these presents do sell, assign, transfer and set over unto **QUALCOMM Incorporated**, a Delaware corporation, having a place of business at 6455 Lusk Boulevard, San Diego, California 92121, its successors, legal representatives, or assigns, the whole right, title and interest in and to a certain invention relating to a **AMPLITUDE AND PHASE ESTIMATION METHOD IN A WIRELESS COMMUNICATION SYSTEM** by me devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on May 12, 1999 and assigned Serial No. 09/310,232 and all original and reissue patents granted thereof, and all divisions, and continuations thereof, including the subject matter of any and all claims which may be obtained in every such patent, and all foreign rights to said invention, and covenant that I have full right to do so, and agree that I will communicate to said corporation or its representatives all facts known to me respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, make all rightful oaths and generally do everything possible to aid said corporation, its successors, assigns and nominees, to obtain and enforce proper patent protection for said invention in all countries.

The Commissioner of Patents and Trademarks is requested to issue the Letters Patent which may be granted for said invention or any part thereof unto said corporation in keeping with this Assignment.

Done at San Diego, California this 27<sup>th</sup> day of July, 1999.

*Fuyun Ling*  
FUYUN LING

STATE OF CALIFORNIA    )  
  ) ss.  
COUNTY OF SAN DIEGO    )

On July 27, 1999 before me, the undersigned, a Notary Public in and for said State, personally appeared FUYUN LING personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged that he executed same.

*Stephanie Farawell*  
Notary Public

(seal)

