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OVER SHEET

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2.26.01

Attorney Docket No.: QCPA871

Page 1 of 1

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(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

1. Gilbert Leung
- 2.
- 3.
- 4.

Mark if additional names are attached

**EXECUTION DATE**

Month, Day, Year (MMDDYYYY)  
October 8, 1999

**Receiving Party**

Mark if additional names are attached

Name: QUALCOMM Incorporated  
A Delaware Corporation  
Address (Street number and name): 6455 Lusk Boulevard  
Address (City, State, Zip Code): San Diego, California, 92121

**Correspondent Name and Address**

Name: QUALCOMM Incorporated                      Telephone Number: (619) 658-4833  
Attn: Russell B. Miller                                      Facsimile: (619) 658-2502  
Address: 6455 Lusk Boulevard  
Address: San Diego, California 92121

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

Total number of pages: 3

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

If this document is being filed together with a new application, the execution date of the application is:

**Patent Application Number(s):**

1. 09/379,809 filed on August 23, 1999
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): \$0. See copy of original recordation sheet

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: Thomas R. Rouse, Reg. No. 40,793 Signature:  Date: February 22, 2001

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11-24-1999



SHEET

11.09.99

101206413

Attorney Docket No.:

TO: The Commissioner of Patents and

document(s) or copy(ies).

**Submission Type**

- New
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NAME

Mark if additional names are attached

1. Gilbert Leung
- 2.
- 3.
- 4.

**EXECUTION DATE**

Month, Day, Year (MMDDYYYY)  
10/8/99

**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                      **Telephone Number:** (858) 651-5886  
Attn: Jean Lupien    **Facsimile:** (858) 658-2502  
**Address:** 5775 Morehouse Drive  
**Address:** San Diego, California 92121-1714

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

**Total number of pages:** 3

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

**If this document is being filed together with a new application, the execution date of the application is:**

**Patent Application Number(s):**

1. 09/379,809
- 2.
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- 4.

**Patent Number(s):**

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(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

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.

Date: 11/3/99

Name: Sean English, Reg. No. 37,319

Signature: \_\_\_\_\_

11/23/1999 JSHABAZZ 00000147 170026 09379809

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# 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 **GILBERT LEUNG** a citizen of the United States of America having a place of residence 254 Prospect Street, Apt. 3, New Haven, CT 06511; 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 5775 Morehouse Drive, San Diego, California 92121-1714, its successors, legal representatives, or assigns, the whole right, title and interest in and to a certain invention relating to a **ADAPTIVE CHANNEL ESTIMATION 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 August 23, 1999, and assigned Serial No. 09/379,809 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.

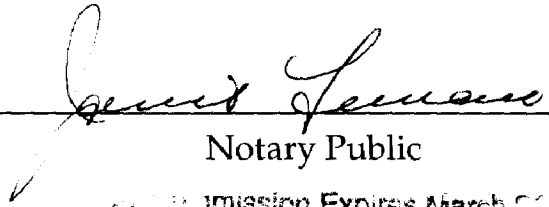
The Commissioner of Patents and Trademarks is requested to issue the Letters Patent which may be granted for said invention or any part thereof unto said corporation in keeping with this Assignment.

Done at New Haven, Connecticut this 8 day of October, 1999.

  
GILBERT LEUNG

STATE OF Connecticut )  
COUNTY OF New Haven ) ss. New Haven

On October 8, 1999 before me, the undersigned, a Notary Public in and for said State, personally appeared GILBERT LEUNG, 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.

  
Notary Public  
My Commission Expires March 01, 2004

(seal)