

06-21-1999

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**

MRD

6-10-99



101070927

Attorney Docket No.: QCPA850  
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:

JC135 U.S. PTO  
09/329777  
06/10/99**Conveying Party(ies)**

NAME

☐ Mark if additional names are attached

1. Christopher C. Riddle
2. Jeffrey A. Levin
- 3.
- 4.

**EXECUTION DATE**

Month, Day, Year (MMDDYYYY)

6/10/99

6/10/99

**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  
 Attn: Russell B. Miller

**Telephone Number:** (619) 658-4833**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:** 4**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:** 6/10/99**Patent Application Number(s):**

1. 09 329777
- 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):** \$40.00Method 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: Christopher O. Edwards, Reg. No. 36,127

Signature:

Date: 6/10/99

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PATENT

REEL: 010027 FRAME: 0987

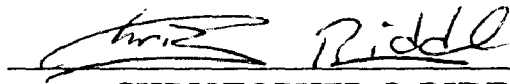
# ASSIGNMENT

TO WHOM IT MAY CONCERN:

For the sum of One Dollar and other valuable consideration to us in hand paid, receipt of which is hereby acknowledged, be it known that we, **CHRISTOPHER C. RIDDLE**, a citizen of the United States of America having a place of residence at 11041 Ironwood Road, San Diego, California 92131; and **JEFFREY A. LEVIN**, a citizen of the United States of America having a place of residence at 13063 Harwick Lane, San Diego, California 92130, 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 **METHOD AND APPARATUS FOR USING FRAME ENERGY METRICS TO IMPROVE RATE DETERMINATION** by us devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on even date herewith, 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 we have full right to do so, and agree that we will communicate to said corporation or its representatives all facts known to us 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 10 day of June, 1999.



CHRISTOPHER C. RIDDLE

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

On June 10, 1999 before me, the undersigned, a Notary Public in and for said State, personally appeared CHRISTOPHER C. RIDDLE, 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

(seal)



Done at San Diego, California this 10 day of June, 1999.

Jeffrey A. Levin  
JEFFREY A. LEVIN

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

On June 10, 1999 before me, the undersigned, a Notary Public in and  
for said State, personally appeared JEFFREY A. LEVIN, 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.

Monique Hatch

Notary Public

(seal)

