

12-10-2003

U.S. Department of Commerce
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PATENT

HEET

102618579

Attorney Docket No.: 030412

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

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- ☒ New
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Conveyance Type

- ☒ Assignment
☐ Change of Name
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☐ Merger
☐ Security Agreement
☐ Other: _____

2581 U.S. PTO
10/725904
120103

Conveying Party(ies)

NAME

☐ Mark if additional names are attached

1. J. RODNEY WALTON
2. JOHN W. KETCHUM
3.
4.

EXECUTION DATE

Month, Day, Year (MMDDYYYY)

11/25/2003

11/25/2003

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: Patent Dept.

Telephone Number: (858) 651-4125

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: 12/01/2003

Patent Application Number(s):

1.
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/
2. PCT/

3. 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.

Date: 12/01/2003

Name: Thien T. Nguyen, Reg. No. 43,835
(858) 651-6137

Signature:

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Page 1 of 1

Customer No. 23696

PATENT
REEL: 014759 FRAME: 0712

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; **J. RODNEY WALTON**, a citizen of the United States of America having a place of residence at 85 HIGHWOODS LANE; CARLISLE, MASSACHUSETTS 01741; and **JOHN W. KETCHUM**, a citizen of the United States of America having a place of residence at 37 CANDLEBERRY LANE; HARVARD, MASSACHUSETTS 01451; 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:

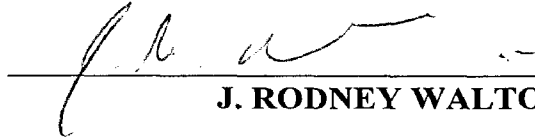
**METHOD AND APPARATUS FOR PROVIDING AN EFFICIENT CONTROL
CHANNEL STRUCTURE IN A WIRELESS COMMUNICATION SYSTEM**

by us devised and the application for United States Patent therefor filed **HEREWITH** in the United States Patent and Trademark Office, including, without limitation, all provisional patent applications, 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

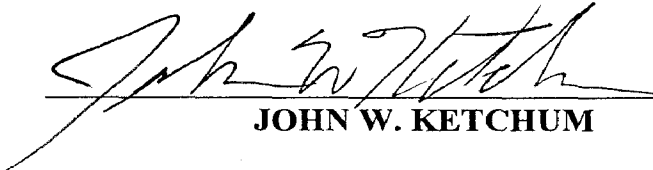
for said invention in all countries.

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 Carlisle, Massachusetts this 25th day of Nov, 2003.


J. RODNEY WALTON

Done at Harvard, Massachusetts this 25th day of Nov, 2003.


JOHN W. KETCHUM