

FORM PTO-1619A/B

U.S. Department of Commerce
Patent and Trademark Office
PATENTRECORDATION FORM COVER SHEET
PATENTS ONLY

Attorney Docket No.: 040055

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

☒ Mark if additional names are attached

1. Jay Rodney Walton
2. Lizhong Zheng
3. John W. Ketchum
4. Mark S. Wallace

EXECUTION DATE

Month, Day, Year (MMDDYYYY)

03252005
 04012005
 03252005
 03252005

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 Department

Telephone Number: (858) 658-5787

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: 2

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. 11/008,865
- 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

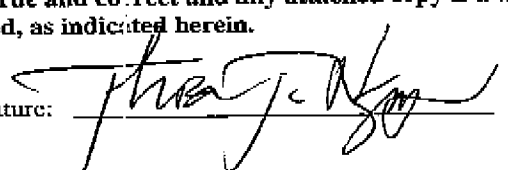
Authorization to charge additional fees: ☒ Yes ☐ No

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: April 4, 2005

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

Signature: 

FOR OFFICE USE ONLY

FORM PTO-1619C

U.S. Department of Commerce
Patent and Trademark Office
PATENT**RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY**

Attorney Docket No.: 040055

ENTER ADDITIONAL CONVEYING PARTIES:**NAME****EXECUTION DATE**

Month, Day, Year (MMDDYYYY)

03252005

5. Steven J. Howard

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20.**Enter additional Receiving Party(ies):****Name:****Address (Street number and name):****Address (City, State, Zip Code):****Name:****Address (Street number and name):****Address (City, State, Zip Code):****Application Number(s) or Patent Number(s)****Patent Application Number(s):****Patent Number(s):**5.
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ATTORNEY DOCKET NO. 040055

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 **Jay Rodney Walton**, a citizen of the United States of America having a place of residence at 85 Highwoods Lane, Carlisle, Massachusetts 01741, and **Lizhong Zheng**, a citizen of China having a place of residence at 20 Sherman Stree, Canton, Massachusetts 02021 and **John W. Ketchum**, a citizen of the United States of America having a place of residence at 37 Candleberry Lane, Harvard, Massachusetts 01451 and **Mark S. Wallace**, a citizen of the United States of America having a place of residence at 4 Madel Lane, Bedford, Massachusetts 01730 and **Steven J. Howard**, a citizen of the United States of America having a place of residence at 75 Heritage Avenue, Ashland, Massachusetts 01721; 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:

SPATIAL SPREADING IN A MULTI-ANTENNA COMMUNICATION SYSTEM

by us devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on **December 9, 2004**, and assigned Serial No. **11/008,865**, including, without limitation, all provisional patent applications, including Serial No. **60/531,021**, filed December 17, 2003, 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

ATTORNEY DOCKET NO. 040055

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 Concord, Massachusetts this 25 day of March, 2005.


Jay Rodney Walton

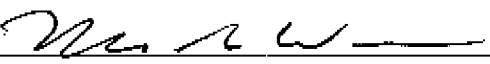
Done at Concord, Massachusetts this 1st day of April, 2005.


Lizhong Zheng

Done at Concord, Massachusetts this 25th day of March, 2005.


John W. Ketchum

Done at Concord, Massachusetts this 25th day of March, 2005.


Mark S. Wallace

Done at Concord, Massachusetts this 25th day of March, 2005.


Steven J. Howard