

FORM PTO-1619A/B

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

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Attorney Docket No.: 050391

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

EXECUTION DATE

Month, Day, Year (MMDDYYYY)

1. Ayman Fawzy Naguib
2. Alexei Gorokhov
3. Tingfang Ji
4. Dhananjay Ashok Gore
5. Arak Sutivong

- 9/14/05
- 9/13/05
- 9/13/05
- 9/13/05
- 9/18/05

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:

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. 11/150,417
- 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:

Fee Amount

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

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: 10/4/05

Name: Dmitry R. Milikovsky & Reg. No. 41,999
Phone No. 858-845-0130

Signature: 

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CH \$40.00 170026 11150417

ASSIGNMENT

TO WHOM IT MAY CONCERN:

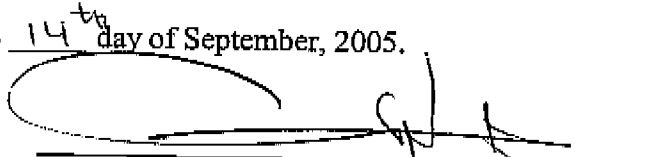
For the sum of One Dollar and other valuable consideration to us in hand paid, receipt of which is hereby acknowledged, be it known that we Ayman Fawzy Naguib, a citizen of the United States of America having a place of residence at 991 Cranberry Drive, Cupertino, California 95014, and Alexei Gorokhov, a citizen of France having a place of residence at 12543 El Camino Real, San Diego, California 92130, and Tingfang Ji, a citizen of China P.R. having a place of residence at 3425 Lebon Drive, Apt. 921, San Diego, California 92122, and Dhananjay Ashok Gore, a citizen of India having a place of residence at 8465 Regents Road #436, San Diego, California 92122, and Arak Sutivong, a citizen of Thailand having a place of residence at 12 Soi Prasatsuk, Yen-A-Kat Road, Bangkok, Thailand 10120; 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:

RATE SELECTION FOR A QUASI-ORTHOGONAL COMMUNICATION SYSTEM
by us devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on **June 10, 2005**, as Serial No. 11/150,417 including, without limitation, all provisional patent applications, **including Serial No. 60/659,641, filed March 07, 2005**, 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 14th day of September, 2005.



Ayman Fawzy Naguib

Done at San Diego, California this ____ day of September, 2005.

Alexei Gorokhov

Done at San Diego, California this ____ day of September, 2005.

Tingfang Ji

Done at San Diego, California this ____ day of September, 2005.

Dhananjay Ashok Gore

Done at Bangkok, Thailand this ____ day of September, 2005.

Arak Sutivong

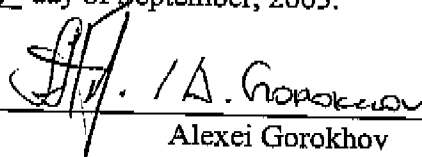
and enforce proper patent protection for said invention in all countries.

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 ____ day of September, 2005.

Ayman Fawzy Naguib

Done at San Diego, California this 13 day of September, 2005.



Alexei Gorokhov

Done at San Diego, California this ____ day of September, 2005.

Tingfang Ji

Done at San Diego, California this ____ day of September, 2005.

Dhananjay Ashok Gore

Done at Bangkok, Thailand this ____ day of September, 2005.

Arak Sutivong

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 ____ day of September, 2005.

Ayman Fawzy Naguib

Done at San Diego, California this ____ day of September, 2005.

Alexei Gorokhov

Done at San Diego, California this 13 day of September, 2005.

Tingfang Ji

Done at San Diego, California this ____ day of September, 2005.

Dhananjay Ashok Gore

Done at Bangkok, Thailand this ____ day of September, 2005.

Arak Sutivong

ATTORNEY DOCKET NO. 050391

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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 ____ day of September, 2005.

Ayman Fawzy Naguib

Done at San Diego, California this ____ day of September, 2005.

Alexei Gorokhov

Done at San Diego, California this ____ day of September, 2005.

Tingfang Ji

Done at San Diego, California this 13th day of September, 2005.



Dhananjay Ashok Gore

Done at Bangkok, Thailand this ____ day of September, 2005.

Arak Sutivong

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 _____ day of September, 2005.

Ayman Fawzy Naguib

Done at San Diego, California this _____ day of September, 2005.

Alexei Gorokhov

Done at San Diego, California this _____ day of September, 2005.

Tingfang Ji

Done at San Diego, California this _____ day of September, 2005.

Dhananjay Ashok Gore

Done at Bangkok, Thailand this 18th day of September, 2005.



Arak Sutivong