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Attorney Docket No.: 020248

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

Submission Type

- New
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Document ID No.
- Correction of PTO Error
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Conveyance Type

- Assignment
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- Security Agreement
- Other: _____

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Conveying Party(ies)

Mark if additional names are attached

NAME

EXECUTION DATE

Month, Day, Year (MMDDYYYY)

1. PETER GAAL
2. JOSEPH P. ODENWALDER
3. STEIN A. LUNDBY
4. DAVID PUIG-OSES

- 05/20/2002
- 05/20/2002
- 05/20/2002
- 05/20/2002

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: Sarah Kirkpatrick, Manager, Intellectual Property Administration
Address: 5775 Morehouse Drive
Address: San Diego, California 92121-1714

Telephone Number: (858) 651-1179
Facsimile: (858) 658-2502

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: _____

Patent Application Number(s):

1. 10/079,778 FILED 02/19/2002
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: May 20, 2002

Name: Kyong H. Macek, Reg. No. 42,977
(858) 651-5797

Signature: _____

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06/03/2002 LMUELLER 00000159 170026 10079778

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40.00 CH

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 **PETER GAAL**, a citizen of Hungary having a place of residence at **9515 EASTER WAY #6, SAN DIEGO, CALIFORNIA 92121**; **JOSEPH P. ODENWALDER**, a citizen of the United States of America having a place of residence at **18176 LAGO VISTA, RANCHO SANTA FE, CALIFORNIA 92067- 8981**; **STEIN A. LUNDBY**, a citizen of Switzerland having a place of residence at **716 NORTH GRANADOS AVENUE, SOLANA BEACH, CALIFORNIA 92075**; and **DAVID PUIG-OSES**, a citizen of Spain having a place of residence at **3103 NATCHEZ AVENUE, SAN DIEGO, CALIFORNIA 92117**; 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 **IMPROVED CHANNEL QUALITY FEEDBACK MECHANISM AND METHOD** by us devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on **FEBRUARY 19, 2002**, and assigned Application Serial No. **10/079,778**, 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 20th day of May, 2002.



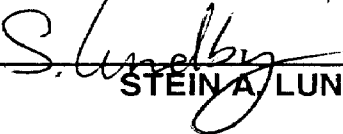
PETER GAAL

Done at Rancho Santa Fe, California this 20 day of MAY, 2002.



JOSEPH P. ODENWALDER

Done at Solana Beach, California this 20 day of MAY, 2002.



STEIN A. LUNDBY

Done at San Diego, California this 20 day of May, 2002.



DAVID PUIG-OSES