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To the Honorable Commissioner of Patents and T

inal documents or copy thereof.

100901551

1. Name of conveying party(ies):

Brian K. Butler, Gwain Bayley, David Hansquine and Edward G. Tiedemann, Jr.

MAD 11-9-98

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: QUALCOMM Incorporated

Internal Address:

Street Address: 6455 Lusk Boulevard

City: San Diego State: CA ZIP: 92121

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: March 3, 1998, March 3, 1998, March 4, 1998 and March 2, 1998.

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: _____

A. Patent Application No.(s) U.S. Serial No. 08/922,720 filed on September 3, 1997

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

RUSSELL B. MILLER

Name: QUALCOMM Incorporated

Internal Address:

Street Address: 6455 Lusk Boulevard

City: San Diego State: CA ZIP: 92121

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41).....\$ 40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

17-0026

(Attach duplicate copy of this page if paying by deposit account)

11/17/1998 DNGUYEN 00000249 170026 08922720

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9. 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.

Charles D. Brown, Reg. No. 28,285

Name of Person Signing

Charles D. Brown

Signature

Nov. 3, 1998

Date

Total number of pages including cover sheet, attachments, and document

5

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, **BRIAN K. BUTLER**, a citizen of the United States of America having a place of residence at 8736 Glenwick Lane, La Jolla, California 92037; **GWAIN BAYLEY**, a citizen of the United Kingdom having a place of residence at 5124 Hilda Road, San Diego, California 92110; **DAVID HANSQUINE**, a citizen of Canada having a place of residence at 7510 Charmant Drive, #717, San Diego, California 92122; **EDWARD G. TIEDEMANN, JR.**, a citizen of the United States of America having a place of residence at 4350 Bromfield Avenue, San Diego, California 92122, 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 **DECODING WITH PARTIAL STATE INFORMATION ON A CONVOLUTIONALLY ENCODED CHANNEL** by us devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on September 3, 1997, and assigned Serial No. 08/922,720, 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

Done at San Diego, California this 3 day of March, 1998.

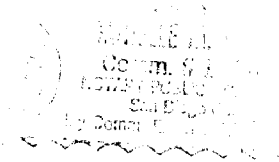
Gwain Bayley
GWAIN BAYLEY

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

On March 3, 1998 before me, the undersigned, a Notary Public in and for said State, personally appeared GWAIN BAYLEY, 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.

Danielle M. Lagnado
Notary Public

(seal)



Done at San Diego, California this 4 day of March, 1998.

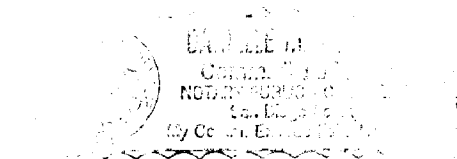
David Hansquine
DAVID HANSQUINE

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

On March 4, 1998 before me, the undersigned, a Notary Public in and for said State, personally appeared DAVID HANSQUINE, 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.

Danielle M. Lagnado
Notary Public

(seal)



Done at San Diego, California this 2 day of MARCH, 1998.

Edward G. Tiedemann, Jr.
EDWARD G. TIEDEMANN, JR.

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

On March 2, 1998 before me, the undersigned, a Notary Public in and for said State, personally appeared EDWARD G. TIEDEMANN, JR., 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.

Danielle M. Lagnato
Notary Public

(seal)

