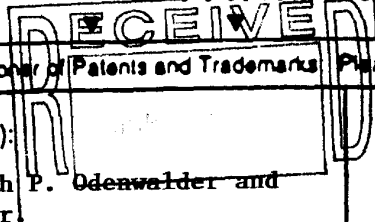


06-17-1998

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copy thereof.

To the Honorable Commissioner of Patents and Trademarks, Please:

100741491

1. Name of conveying party(ies):

Stein A. Lundby, Joseph P. Odenwelder and Edward G. Tiedemann, Jr.

2. Name and address of receiving party(ies)

Name: QUALCOMM Incorporated

Internal Address:

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

3. Nature of conveyance:

MPO 6-5-98

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

Street Address: 6455 Lusk Blvd.

City: San Diego State: CA ZIP: 92121

Execution Date: May 29, 1998

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

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. 08/925,521 filed on September 8, 1997

B. Patent No.(s)

Additional numbers attached? Yes No

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

Danielle L. Miller Name: QUALCOMM Incorporated

Internal Address:

Street Address: 6455 Lusk Blvd.

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)

06/16/1998 00000210-170026-00025591

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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.

Bruce W. Greenhaus, Reg. No. 37,339

Signature

June 1, 1998

Name of Person Signing

Signature

Date

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

3


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, **STEIN A. LUNDBY**, a citizen of Switzerland having a place of residence at 849 Diamond Street, San Diego, California 92109; **JOSEPH P. ODENWALDER**, a citizen of the United States of America having a place of residence at 14967 Rancho Real, Del Mar, California 92014; and **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 **METHOD AND APPARATUS FOR PROVIDING ORTHOGONAL SPOT BEAMS, SECTORS AND PICOCELLS** by us devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on September 8, 1997, and assigned Serial No. 08/925,521, 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.

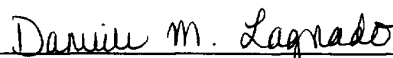
Done at San Diego, California this 29th day of May, 1998.



STEIN A. LUNDBY

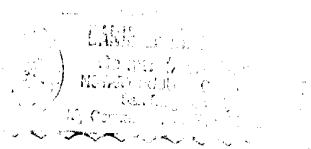
STATE OF CALIFORNIA)
) ss.
COUNTY OF SAN DIEGO)

On May----- 29, 1998 before me, the undersigned, a Notary Public in and for said State, personally appeared STEIN A. LUNDBY, 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.



Notary Public

(seal)



Done at San Diego, California this 29 day of MAY, 1998.

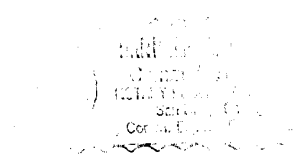
Joseph P. Odenwalder
JOSEPH P. ODENWALDER

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

On May----- 29, 1998 before me, the undersigned, a Notary Public in and for said State, personally appeared JOSEPH P. ODENWALDER, 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 29 day of May, 1998.

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

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

On May----- 29, 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. Lagnado
Notary Public

(seal)

