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100964691

Patent No.: QCPA471

Page 1 of 1

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.

*MLP
29-99*

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. DAVID E. WANG
- 2. MAHMOUD AZARTASH
- 3. LARRY D. BRADLEY
- 4. RICHARD J. KERR

- JANUARY 4, 1999
- JANUARY 4, 1999
- JANUARY 22, 1999
- FEBRUARY 2, 1999

Receiving Party

Mark if additional names are attached

Name: QUALCOMM Incorporated
A Delaware Corporation

Address (Street number and name): 6455 Lusk Boulevard
Address (City, State, Zip Code): San Diego, California, 92121

Correspondent Name and Address

Name: QUALCOMM Incorporated
Attn: Russell B. Miller

Address: 6455 Lusk Boulevard
Address: San Diego, California 92121

Telephone Number: (619) 658-4833
Facsimile: (619) 658-2502

Pages (Enter the total number of pages of the attached conveyance document including any attachments)

Total number of pages: 5

Application Number(s) or Patent Number(s)

Patent Application Number(s):

- 1. 09/182,626 - FILED OCTOBER 29, 1998
- 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.

Name: Charles D. Brown, Reg. No. 28,285 Signature: Charles D. Brown Date: FEBRUARY 3, 1999

02/11/1999 DNGUYEN 00000204 170026 09182626

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(TRANSASSIGN.VER1.0)

PATENT
REEL: 9752 FRAME: 0702

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, **DAVID E. WANG**, a citizen of the United States of America having a place of residence at 8575 Rumex Lane, San Diego, California 92129; **MAHMOUD AZARTASH**, a citizen of the United States of America having a place of residence at 2038 Sequoia Street, San Marcos, California 92069; **LARRY D. BRADLEY**, a citizen of the United States of America having a place of residence at 15366 Andorra Way, San Diego, California 92129; and **RICHARD J. KERR**, a citizen of the United States of America having a place of residence at 4755 Thurston Place, San Diego, California 92130, 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 **SYSTEM AND METHOD FOR PROVIDING BACK-LIGHTING TO A KEYPAD** by us devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on October 29, 1998, and assigned Serial No. 09/182,626, 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

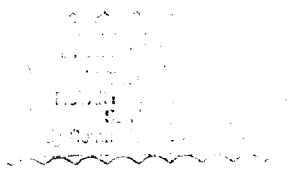
Done at San Diego, California this 4 day of Jan, 1999.

Mahmoud Azartash
MAHMOUD AZARTASH

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

On January 4, 1999 before me, the undersigned, a Notary Public in and for said State, personally appeared MAHMOUD AZARTASH, 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.

(seal)



Danielle M. Lagnado
Notary Public

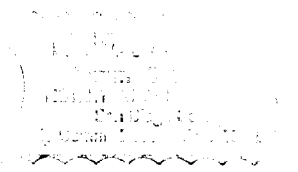
Done at San Diego, California this 22 day of JAN, 1999.

Larry D. Bradley
LARRY D. BRADLEY

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

On January 22, 1999 before me, the undersigned, a Notary Public in and for said State, personally appeared LARRY D. BRADLEY, 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.

(seal)



Danielle M. Lagnado
Notary Public

Done at San Diego, California this 2 day of 2, 1999.

Richard J. Kerr

RICHARD J. KERR

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

On February 2, 1999 before me, the undersigned, a Notary Public in and for said State, personally appeared RICHARD J. KERR, 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)

