

01-13-2003

U.S. Department of Commerce
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HEET

102335547

Attorney Docket No.: 020742

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
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Conveyance Type

- ☒ Assignment
☐ Change of Name
☐ License
☐ Merger
☐ Security Agreement
☐ Other: _____

1-7-03

Conveying Party(ies)☐ Mark if additional names are attached**NAME**

1. KHALED HELMI EL-MALEH
2. ANANTHAPADMANABHAN ARASANIPALAI KANDHADAI
- 3.
- 4.

EXECUTION DATE

Month, Day, Year (MMDDYYYY)

12/17/2002

12/17/2002

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: Patent Dept.

Address: 5775 Morehouse Drive

Address: San Diego, California 92121-1714

Telephone Number: (858) 651-4404

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. 10/282,568 FILED 10/28/2002
- 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/

3. PCT/

2. 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: December 31, 2002

Name: S. Hossain Beladi, Reg. No. 42,311
(858) 651-4470

Signature:

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01/10/2003 IDIA71 00000273 170026 10282568

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Customer No. 23696

PATENT
REEL: 013640 FRAME: 0085

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 **KHALED HELMI EL-MALEH**, a citizen of Canada having a place of residence at **7675 PALMILLA DRIVE # 6314, SAN DIEGO, CALIFORNIA 92122**; and **ANANTHAPADMANABHAN ARASANIPALAI KANDHADAI**, a citizen of India having a place of residence at **10187 CAMINO RUIZ #127, SAN DIEGO, CALIFORNIA 92126**; 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 **RE-FORMATting VARIABLE-RATE VOCODER FRAMES FOR INTER-SYSTEM TRANSMISSIONS** by us devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on **10/28/2002**, and assigned Application Serial No. **10/282,568**, 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.

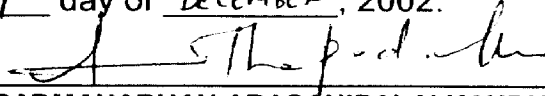
The Commissioner of Patents and Trademarks is requested to issue the Letters Patent which may be granted for said invention or any part thereof unto said corporation in keeping with this Assignment.

Done at San Diego, California this 17 day of December, 2002.



KHALED HELMI EL-MALEH

Done at San Diego, California this 17 day of December, 2002.



ANANTHAPADMANABHAN ARASANIPALAI KANDHADAI