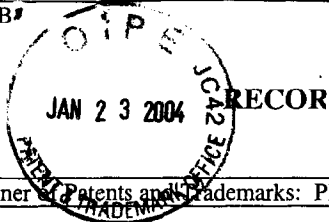


02-02-2004

U.S. Department of Commerce
Patent and Trademark Office
PATENT

102659164

Attorney Docket No.: 020683

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.
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1.23.04

Conveyance Type

- ☒ Assignment
☐ Change of Name
☐ License
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☐ Other: _____

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

NAME

Messay Amerga
 Thomas B. Wilborn
 Gurdeep Singh

EXECUTION DATE

Month, Day, Year (MMDDYYYY)

01/19/2004

01/19/2004

01/19/2004

Receiving Party(ies) ☐ Mark if additional names are attached

Name: QUALCOMM Incorporated
 A Delaware Corporation
 Address: 5775 Morehouse Drive
 Address: San Diego, California, 92121-1714

Correspondence Name and Address

Name: QUALCOMM Incorporated (PTO Customer No. 23696)
 Attn: Patent Department
 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)

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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):

10/650,547

Patent Number(s):

Number of Properties (Enter the total number of properties involved)

Total number of properties: one

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$40

Method of Payment: ☐ Enclosed ☒ Deposit 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: 1/21/04

Name: George C. Pappas, Reg. No. 35,065
 858-651-1306

Signature:

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01 FC:8021 40.00 DA

(TRANSASSIGN.VER1.6-2/12/2001)

PATENT
 REEL: 014938 FRAME: 0979

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 **Messay Amerga**, a citizen of Ethiopia having a place of residence at 8929 Lombard Place, San Diego, Ca 92122, and **Thomas B. Wilborn**, a citizen of the United States of America having a place of residence at 11135 Vivaracho Way, San Diego, California 92124; and **Gurdeep Singh** a citizen of India having a place of residence at 11899 Westview Parkway, San Diego, Ca 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:

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by us devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on **August 27, 2003**, and assigned Serial No. **10/650,547**, including, without limitation, all provisional patent applications, 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.

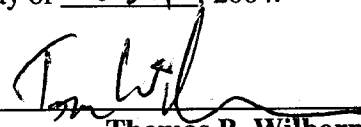
The Commissioner of Patents and Trademarks is requested to issue the Letters Patent which may be granted for said invention or any part thereof unto said corporation in keeping with this Assignment.

Done at San Diego, California this 19th day of Jan, 2004.



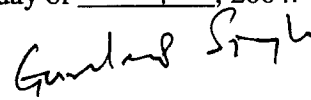
Messay Amerga

Done at San Diego, California this 19th day of Jan, 2004.



Thomas B. Wilborn

Done at San Diego, California this 19 day of Jan, 2004.



Gurdeep Singh