

MRD 10/28/99

11-01-1999

FORM PTO-1619A
Expires 06/30/99
OMB 0651-0027



101187825

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

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

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#

Correction of PTO Error
Reel # Frame #

Corrective Document
Reel # Frame #

Conveyance Type

Assignment Security Agreement

License Change of Name

Merger Other

U.S. Government
(For Use ONLY by U.S. Government Agencies)

Departmental File Secret File

Conveying Party(ies)

Mark if additional names of conveying parties attached

Name (line 1) Execution Date Month Day Year

Name (line 2)

Second Party

Name (line 1) Execution Date Month Day Year

Name (line 2)

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)
City State/Country Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

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40.00 DP

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to:
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

PATENT
REEL: 010341 FRAME: 0093

RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY

Conveying Party(ies)

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1)

Execution Date
Month Day Year

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Receiving Party(ies)

Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

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Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

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Correspondent Name and Address

Area Code and Telephone Number (858) 658-4833

Name Russell B. Miller

Address (line 1) Qualcomm, Inc.

Address (line 2) 5775 Morehouse Drive

Address (line 3)

Address (line 4) San Diego, CA 92121

Pages

Enter the total number of pages of the attached conveyance document including any attachments.

6

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

09/392,490

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT PCT PCT
PCT PCT PCT

Number of Properties

Enter the total number of properties involved.

1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00

Method of Payment:
Deposit Account

Enclosed Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: # 04-1697

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.

Travis C. Stephenson

10/25/99

Name of Person Signing

Signature

Date

For: U.S. Rights and Foreign Rights
For: U.S. Application
By: Inventors

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNORS:

David J. Mittelstadt
2396 Vinyard Place
Boulder, CO 80304
Nationality: USA

Shawn C. Morrison
2867 Sundown Lane, #103
Boulder, CO 80303
Nationality: USA

Gayathri Chittiappa
395 Pearl Street
Boulder, CO 80302
Nationality: USA

Jon D. Slater
3600 Iris Avenue, Unit A
Boulder, CO 80301
Nationality: USA

Steve C. DeTar
5475 Mt. Evans Place
Longmont, CO 80503
Nationality: USA

hereby sell, assign and transfer to

ASSIGNEE:

Qualcomm, Inc.
5775 Morehouse Drive
San Diego, California 92121
Nationality: USA

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention entitled:

MOBILE TELEPHONE STATUS MENU WITH ANTENNA POSITION INDICATION

and which is found in (37 C.F.R. § 3.21) U.S. **application no. 09/392,490 filed on September 9, 1999** and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have hereunto set hand and seal this 14 day of October, 1999. *Gay S. Murray.*

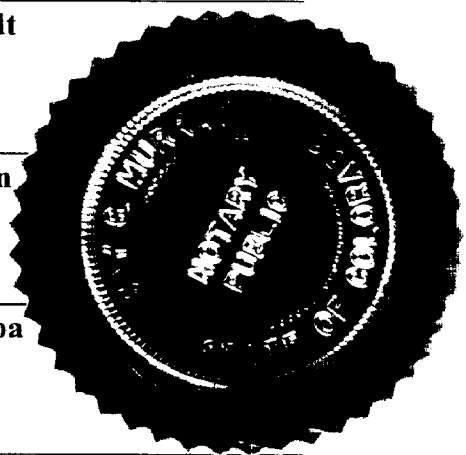
Date: _____
David Mittelstadt
Signature of David J. Mittelstadt

Date: _____
Signature of Shawn C. Morrison

Date: _____
Signature of Gayathri Chittiappa

Date: _____
Signature of Jon D. Slater

Date: _____
Signature of Steve C. DeTar



My Commission Expires
06/06/2003

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention entitled:

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IN WITNESS WHEREOF, We have hereunto set hand and seal this _____ day of _____.

Date:

Signature of David J. Mittelstadt

Date: 10/11/99

Shawn C Morrison

Signature of Shawn C. Morrison

Date:

Signature of Gayathri Chittiappa

Date:

Signature of Jon D. Slater

Date:

Signature of Steve C. DeTar

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IN WITNESS WHEREOF, We have hereunto set hand and seal this 12th day of October, 1999

Date:



Signature of David J. Mittelstadt

Date:

Signature of Shawn C. Morrison

Date:

10/17/99

Gayathri Chittiappa
Signature of Gayathri Chittiappa

Date:

Jon D. Slater
My Commission Expires 09/25/2000

Signature of Jon D. Slater

Date:

Signature of Steve C. DeTar

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IN WITNESS WHEREOF, We have hereunto set hand and seal this 14th day of

October 1999

Date:

Signature of David J. Mittelstadt

Date:

Signature of Shawn C. Morrison

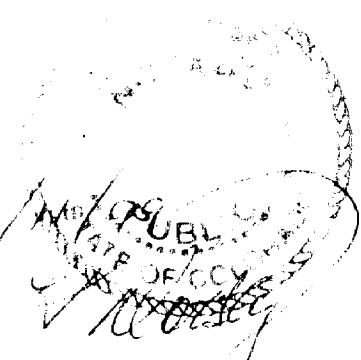
Date:

Signature of Gayathri Chittiappa

Date:

Jon D. Slater

Signature of Jon D. Slater



Date:

My Commission Expires 02/25/2000

Signature of Steve C. DeTar

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Date: _____
Signature of David J. Mittelstadt

Date: _____
Signature of Shawn C. Morrison

Date: _____
Signature of Gayathri Chittiappa

Date: _____
Signature of Jon D. Slater

Date: _____
Signature of Steve C. DeTar



My Commission Expires 09/25/2000

[Handwritten signature]