

Form PTO-1595 (Rev. 06/04)
OMB No. 0651-0027 (exp. 6/30/2005)U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office**RECORDATION FORM COVER SHEET
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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):Dhananjay Ashok Gore
Avneesh Agrawal
Tamer KadousExecution Date(s) 2/27/05, 1/22/05, 1/22/05Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance:**

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)Name: Qualcomm, Inc.Internal Address: Patent Dept.Street Address: 5775 Morehouse Dr.City: San DiegoState: CaliforniaCountry: USA Zip: 92121Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**☐ This document is being filed together with a new application.

A. Patent Application No.(s)

Serial # 11/022,146

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Qualcomm, Inc.Internal Address: Patent Dept.Street Address: 5775 Morehouse Dr.City: San DiegoState: California Zip: 92121Phone Number: 858-658-5787Fax Number: 858-658-2507

Email Address: _____

6. Total number of applications and patents involved: 1**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
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9. Signature:Abdullah Karbala (45,325)
Signature3/14/05
Date

Sandip (Micky) S. Minhas, Reg. No. 44,945

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 3Documents to be recorded (Including cover sheet) should be faxed to (703) 306-5395, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

CH \$40.00 170026 11022146

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 Dhananjay Ashok Gore, a citizen of India having a place of residence at 8465 Regents Road #436, San Diego, California 92122, and Avneesh Agrawal, a citizen of India having a place of residence at 7891 Doug Hill, San Diego, California 92127, and Tamer Kadous, a citizen of Egypt having a place of residence at 5385 Toscana Way #316, 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 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:

PILOT TRANSMISSION AND CHANNEL ESTIMATION FOR MULTIPLE TRANSMITTERS

by us devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on **December 22, 2004**, as Serial No. 11/022,146 including, without limitation, all provisional patent applications, **including Serial No. 60/590,864, filed July 22, 2004**, 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.

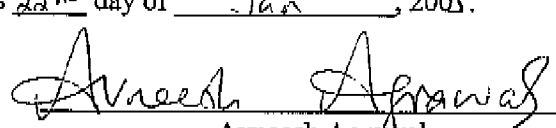
ATTORNEY DOCKET NO. 040285

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 27th day of Jan., 2005


Dhananjay Ashok Gore

Done at San Diego, California this 22nd day of Jan, 2005:-


Avneesh Agrawal

Done at San Diego, California this 22nd day of Dec., 2004.


Tamer Kadous