

FORM PTO-1619A/B

U.S. Department of Commerce  
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PATENT

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Attorney Docket No.: 040746

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

<b>Submission Type</b> <input checked="" type="checkbox"/> New <input type="checkbox"/> Resubmission (Non-Recordation) Document ID No. <input type="checkbox"/> Correction of PTO Error Reel No.                      Frame No. <input type="checkbox"/> Corrective Document Reel No.                      Frame No.	<b>Conveyance Type</b> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Change of Name <input type="checkbox"/> License <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Other: _____
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**Conveying Party(ies)**  Mark if additional names are attached

**NAME**

1. Dhananjay Ashok Gore  
2. Avneesh Agrawal

**EXECUTION DATE**  
Month, Day, Year (MMDDYYYY)  
06062006  
06072006

**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                      **Telephone Number:** (858) 658-5787  
Attn: Patent Department                                      **Facsimile:** (858) 658-2502  
**Address:** 5775 Morehouse Drive  
**Address:** San Diego, California 92121-1714

**Pages** (Enter the total number of pages of the attached conveyance document including any attachments)  
**Total number of pages:** 5 (Including Fax Cover)

**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: \_\_\_\_\_

<b>Patent Application Number(s):</b>	<b>Patent Number(s):</b>
1. 11/405,831	1.
2.	2.
3.	3.
4.	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  
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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: June 20, 2006  
Name: Dmitry R. Milikovskiy, Reg. No. 41.999  
(858) 845-0130

Signature: 

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GH \$40.00 170026 11405831

## 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, Apartment No. 436, San Diego, California 92122, and **Avneesh Agrawal** a citizen of the United States of America having a place of residence at 7891 Doug Hill, San Diego, California 92127; 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**

#### **WITH PILOT WEIGHTING**

by us devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on **April 17, 2006**, and assigned Serial No. **11/405,831**, including, without limitation, all provisional patent applications, **including Serial No. 60/681,586, filed May 16, 2005, and Serial No. 60/710,618, filed August 22, 2005**, 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 5<sup>th</sup> day of June, 2006.

  
\_\_\_\_\_  
Dhyanjay Ashok Gore

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2006.


\_\_\_\_\_  
Avneesh Agrawal

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 \_\_\_\_\_ day of \_\_\_\_\_, 2006.

\_\_\_\_\_  
**Dhananjay Ashok Gore**

Done at San Diego, California this 1<sup>st</sup> day of June, 2006.

  
\_\_\_\_\_  
**Avneesh Agrawal**