

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

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

Attorney Docket No.:050187

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  
Reel No. Frame No.
- Corrective Document  
Reel No. Frame No.

**Conveyance Type**

- Assignment
- Change of Name
- License
- Merger
- Security Agreement
- Other: \_\_\_\_\_

**Conveying Party(ies)**

NAME

Mark if additional names are attached

1. Sharad Deepak Sambhwani
2. Dhananjay Ashok Gore
3. Avneesh Agrawal
4. Arak Sutivong

**EXECUTION DATE**

Month, Day, Year (MMDDYYYY)

- 10/25/2005
- 10/25/2005
- 10/26/2005
- 10/31/2005

**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 Department

Address: 5775 Morehouse Drive  
Address: San Diego, California 92121-1714

Telephone Number: (858) 658-5787  
Facsimile: (858) 658-2502

Pages (Enter the total number of pages of the attached conveyance document including any attachments)

Total number of pages:

**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. 11/213,463
- 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:

**Fee Amount**

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

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: 12-14-05

Name: Dmitry R. Milikovsky & Reg. No. 41,999  
Phone No. 858-845-0130

Signature: 

FOR OFFICE USE ONLY

FORM PTO-1019C

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

**RECORDATION FORM COVER SHEET  
CONTINUATION  
PATENTS ONLY**

Attorney Docket No.: 050187

**ENTER ADDITIONAL CONVEYING PARTIES:**

NAME	EXECUTION DATE
	Month, Day, Year (MMDDYYYY)
5. Alexei Gorokhov	11/3/2005
6.	
7.	
8.	
9.	
10.	
11.	
12.	
13.	
14.	
15.	
16.	
17.	
18.	
19.	
20.	

**Enter additional Receiving Party(ies):**

Name:  
Address (Street number and name):  
Address (City, State, Zip Code):

Name:  
Address (Street number and name):  
Address (City, State, Zip Code):

**Application Number(s) or Patent Number(s)**

Patent Application Number(s):	Patent Number(s):
5.	5.
6.	6.
7.	7.
8.	8.
9.	9.

## 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 Sharad Deepak Sambhwani, a citizen of ~~India~~ <sup>USA</sup> having a place of residence at 6610 Hollycrest Court, San Diego, California 92121, and 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 the United States of America having a place of residence at 7891 Doug Hill, San Diego, California 92127, and Arak Sutivong, a citizen of Thailand having a place of residence at 12 Soi Prasatsuk, Yen-A-Kat Road, Bangkok, Thailand 10120, and Alexei Gorokhov, a citizen of France having a place of residence at 12543 El Camino Real, San Diego, California 92130; 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:

### SDMA FOR WCDMA

by us devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on **August 26, 2005**, as Serial No. 11/213,463 including, without limitation, all provisional patent applications, **including Serial No. 60/702,018, filed July 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 25 day of OCTOBER, 2005.

Sharad Sambhwani  
Sharad Deepak Sambhwani

Done at San Diego, California this \_\_\_\_ day of \_\_\_\_\_, 2005.

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

Done at San Diego, California this \_\_\_\_ day of \_\_\_\_\_, 2005.

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

Done at San Diego, California this \_\_\_\_ day of \_\_\_\_\_, 2005.

\_\_\_\_\_  
Arak Sutivong

Done at San Diego, California this \_\_\_\_ day of \_\_\_\_\_, 2005.

\_\_\_\_\_  
Alexei Gorokhov

ATTORNEY DOCKET NO. 050187

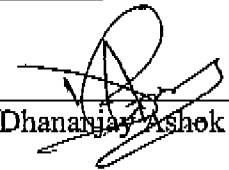
do everything possible to aid said corporation, its successors, assigns and nominees, to obtain and enforce proper patent protection for said invention in all countries.

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 \_\_\_\_\_ day of \_\_\_\_\_, 2005.

\_\_\_\_\_  
Sharad Deepak Sambhwani

Done at San Diego, California this 25<sup>th</sup> day of Oct., 2005.

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

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2005.

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

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2005.

\_\_\_\_\_  
Arak Sutivong

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2005.

\_\_\_\_\_  
Alexei Gorokhov

ATTORNEY DOCKET NO. 050187

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.

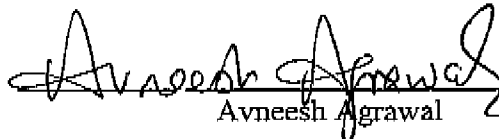
Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2005.

\_\_\_\_\_  
Sharad Deepak Sambhwani

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2005.

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

Done at San Diego, California this 26th day of Oct, 2005.

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

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2005.

\_\_\_\_\_  
Arak Sutivong

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2005.

\_\_\_\_\_  
Alexei Gorokhov

ATTORNEY DOCKET NO. 050187

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 \_\_\_\_ day of \_\_\_\_\_, 2005.

\_\_\_\_\_  
Sharad Deepak Sambhwani

Done at San Diego, California this \_\_\_\_ day of \_\_\_\_\_, 2005.

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

Done at San Diego, California this \_\_\_\_ day of \_\_\_\_\_, 2005.

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

Done at San Diego, California this 31<sup>st</sup> day of October, 2005.

  
\_\_\_\_\_  
Arak Sutivong

Done at San Diego, California this \_\_\_\_ day of \_\_\_\_\_, 2005.

\_\_\_\_\_  
Alexei Gorokhov

ATTORNEY DOCKET NO. 050187

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 \_\_\_\_\_ day of \_\_\_\_\_, 2005.

\_\_\_\_\_  
Sharad Deepak Sambhwani

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2005.

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

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2005.

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

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2005.

\_\_\_\_\_  
Arak Sutivong

Done at San Diego, California this 3 day of November, 2005.



\_\_\_\_\_  
Alexei Gorokhov