

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Sharad Deepak Sambhwani</td><td>07/03/2007</td></tr><tr><td>Juan Montojo</td><td>07/09/2007</td></tr><tr><td>Avneesh Agrawal</td><td>06/25/2007</td></tr><tr><td>Waleed M. Younis</td><td>07/16/2007</td></tr></tbody></table>		Name	Execution Date	Sharad Deepak Sambhwani	07/03/2007	Juan Montojo	07/09/2007	Avneesh Agrawal	06/25/2007	Waleed M. Younis	07/16/2007
Name	Execution Date										
Sharad Deepak Sambhwani	07/03/2007										
Juan Montojo	07/09/2007										
Avneesh Agrawal	06/25/2007										
Waleed M. Younis	07/16/2007										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>QUALCOMM Incorporated</td></tr><tr><td>Street Address:</td><td>5775 Morehouse Drive</td></tr><tr><td>City:</td><td>San Diego</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>92121</td></tr></table>		Name:	QUALCOMM Incorporated	Street Address:	5775 Morehouse Drive	City:	San Diego	State/Country:	CALIFORNIA	Postal Code:	92121
Name:	QUALCOMM Incorporated										
Street Address:	5775 Morehouse Drive										
City:	San Diego										
State/Country:	CALIFORNIA										
Postal Code:	92121										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11684251</td></tr></tbody></table>		Property Type	Number	Application Number:	11684251						
Property Type	Number										
Application Number:	11684251										
CORRESPONDENCE DATA											
Fax Number: (858)658-2502 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone: 858-658-5568											
Email: us-docketing@qualcomm.com											
Correspondent Name: QUALCOMM Incorporated											
Address Line 1: 5775 Morehouse Drive											
Address Line 4: San Diego, CALIFORNIA 92121											
ATTORNEY DOCKET NUMBER:	050527										
NAME OF SUBMITTER:	David J. Huffaker										
Total Attachments: 2 source=050527_ASSIGN_08-10-2007#page1.tif											

CH \$40.00 11684251

500482822

PATENT
REEL: 020623 FRAME: 0241

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 the United States of America having a place of residence at 5254 Foxborough Point, San Diego, California 92130, **Avneesh Agrawal**, a citizen of the United States of America having a place of residence at 7891 Doug Hill, San Diego, California 92127, **Juan Montojo**, a citizen of Spain having a place of residence at 13561 Lavender Way, San Diego, California 92130, **Waleed M. Younis**, a citizen of Egypt having a place of residence at 271 Robinson Drive, Tustin, California 92782; 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:

**CHANNEL EQUALIZATION WITH NON-COMMON MIDAMBLE ALLOCATION IN
3GPP TD-CDMA SYSTEMS**

by us devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on **March 9, 2007**, and assigned Serial No. **11/684,251**, 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.

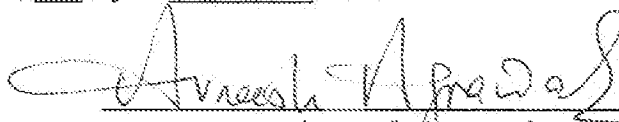
The Commissioner of Patents and Trademarks is requested to issue the Letters Patent which may be granted for said invention or any part thereof unto said corporation in keeping with this Assignment.

Done at San Diego, California, 3rd day of July, 2007.



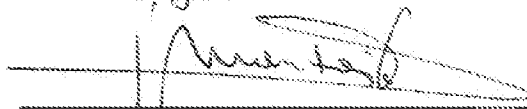
Sharad Deepak Sambhwani

Done at San Diego, California, 25th day of June, 2007.



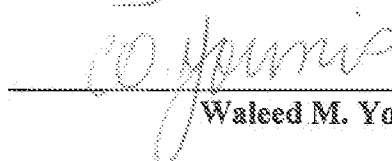
Avneesh Agrawal

Done at San Diego, California, 9th day of July, 2007.



Juan Montojo

Done at San Diego, California, 16th day of July, 2007.



Walced M. Younis