

PATENT ASSIGNMENT

Electronic Version v1.1

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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>Xinping ZHANG</td><td>12/10/2007</td></tr><tr><td>Harleen Gill</td><td>11/08/2007</td></tr><tr><td>Arul Ananthanarayanan</td><td>11/08/2007</td></tr></tbody></table>		Name	Execution Date	Xinping ZHANG	12/10/2007	Harleen Gill	11/08/2007	Arul Ananthanarayanan	11/08/2007
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Xinping ZHANG	12/10/2007								
Harleen Gill	11/08/2007								
Arul Ananthanarayanan	11/08/2007								
RECEIVING PARTY DATA									
Name:	QUALCOMM Incorporated								
Street Address:	5775 Morehouse Drive								
City:	San Diego								
State/Country:	CALIFORNIA								
Postal Code:	92121-1714								
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>11963024</td></tr></tbody></table>		Property Type	Number	Application Number:	11963024				
Property Type	Number								
Application Number:	11963024								
CORRESPONDENCE DATA									
Fax Number:	(858)658-2502								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	858-845-4265								
Email:	nanm@qualcomm.com								
Correspondent Name:	QUALCOMM INCORPORATED								
Address Line 1:	5775 MOREHOUSE DR.								
Address Line 4:	SAN DIEGO, CALIFORNIA 92121								
ATTORNEY DOCKET NUMBER:	051299								
NAME OF SUBMITTER:	Raphael Freiwirth								
Total Attachments: 3 source=051299_ASSIGN_12-21-2007#page1.tif source=051299_ASSIGN_12-21-2007#page2.tif									

CH \$40.00 11963024

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PATENT
REEL: 020284 FRAME: 0370

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,

1. **Xinping Zhang**, a citizen of China, having a place of residence at 10937 Caminito Alvarez, San Diego, California 92126;
2. **Harleen Gill**, a citizen of the United States of America, having a place of residence at 12541 El Camino Real, Unit B, San Diego, California 92130;
3. **Arul Ananthanarayanan**, a citizen of the United States of America, having a place of residence at 4778 Sunset Heights Court, #84, San Diego, California 92130;

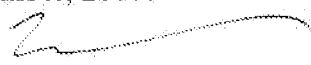
have sold, assigned and transferred and by these presents do sell, assign, transfer and set over unto QUALCOMM Incorporated, a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, its successors, legal representatives, or assigns, the entire right, title and interest in and to a certain invention relating to **Method And Apparatus For Transmitting Multiple Multicast Communications Over A Wireless Communication Network**, by me devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on DECEMBER 21, 2007, and assigned Serial No. 11/963,788 (and we hereby authorize and instruct QUALCOMM Incorporated to hereafter complete this Assignment by inserting the filing date and serial number in the space provided when known), 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

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in every such patent, and all foreign rights to said invention, and covenant that I have full right to do so, and agree that I will communicate to said corporation or its representatives all facts known to me 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 10th ^{December} day of ~~November~~, 2007.


Xinping Zhang

Done at San Diego, California this _____ day of November, 2007.

Harleen Gill

Done at San Diego, California this _____ day of November, 2007.

Arul Ananthanarayanan

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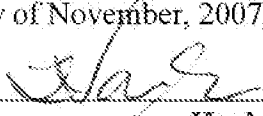
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The Commissioner of Patents and Trademarks is requested to issue the Letters Patent which may be granted for said invention or any part thereof unto said corporation in keeping with this Assignment.

Done at San Diego, California this _____ day of November, 2007.

Xinping Zhang

Done at San Diego, California this 08 day of November, 2007.



Harleen Gill

Done at San Diego, California this _____ day of November, 2007.



Arul Ananthanarayanan