

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>Tao Luo</td> <td>11/22/2010</td> </tr> <tr> <td>Wanshi Chen</td> <td>11/22/2010</td> </tr> <tr> <td>Juan Montojo</td> <td>11/22/2010</td> </tr> <tr> <td>Peter Gaal</td> <td>11/22/2010</td> </tr> <tr> <td>Xiaoxia Zhang</td> <td>11/22/2010</td> </tr> </tbody> </table>		Name	Execution Date	Tao Luo	11/22/2010	Wanshi Chen	11/22/2010	Juan Montojo	11/22/2010	Peter Gaal	11/22/2010	Xiaoxia Zhang	11/22/2010
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Xiaoxia Zhang	11/22/2010												
RECEIVING PARTY DATA													
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>12917359</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12917359								
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Application Number:	12917359												
CORRESPONDENCE DATA													
Fax Number:	(858)658-2502												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
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:	100195												
NAME OF SUBMITTER:	Gayle Gestick												

Total Attachments: 2
 source=100195_2010-11-22_Signed_ASST#page1.tif

501408066

PATENT
REEL: 025649 FRAME: 0720

CH \$40.00 12917359

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. Tao Luo, a citizen of Canada, having a mailing address of 5775 Morehouse Drive, San Diego, California, USA 92121; and a resident of San Diego, CA,
2. Wanshi Chen, a citizen of China, having a mailing address of 5775 Morehouse Drive, San Diego, California, USA 92121; and a resident of San Diego, CA,
3. Juan Montojo, a citizen of the United States of America, having a mailing address of 5775 Morehouse Drive, San Diego, California, USA 92121; and a resident of San Diego, CA,
4. Peter Gaal, a citizen of the United States of America, having a mailing address of 5775 Morehouse Drive, San Diego, California, USA 92121; and a resident of San Diego, CA,
5. Xiaoxia Zhang, a citizen of China, having a mailing address of 5775 Morehouse Drive, San Diego, California, USA 92121; and a resident of San Diego, CA,

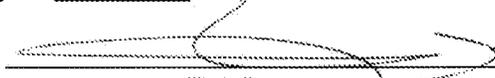
have sold, assigned and transferred and by these presents do sell, assign, transfer and set over unto QUALCOMM Incorporated, a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, its successors, legal representatives, or assigns, the entire right, title and interest in and to a certain invention relating to APPARATUS AND METHOD FOR RANDOM ACCESS SIGNALING IN A WIRELESS COMMUNICATION SYSTEM by us devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on 11/01/2010, and assigned Serial No. 12/917,359, including Provisional Application Number 61/257,411, filed on 11/02/2009, and including Provisional Application Number 61/331,792, filed on 05/05/2010 and all original and reissue patents granted thereof (in the United States and any foreign country), and all divisionals, continuations and continuations-in-part thereof, including the subject matter

ASSIGNMENT

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.

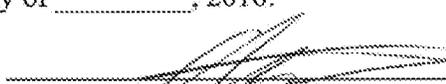
The Commissioner of Patents and Trademarks is requested to issue the Letters Patent which may be granted for said invention or any part thereof unto said corporation in keeping with this Assignment.

Done at San Diego, California this 22nd day of Nov, 2010.



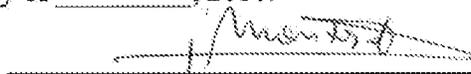
Tao Luo

Done at San Diego, California this 22nd day of Nov, 2010.



Wanshi Chen

Done at San Diego, California this 22nd day of Nov, 2010.



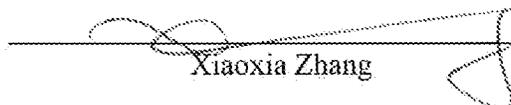
Juan Montojo

Done at San Diego, California this 22nd day of November, 2010.



Peter Gaal

Done at San Diego, California this 22th day of Nov, 2010.



Xiaoxia Zhang