

# PATENT ASSIGNMENT

Electronic Version v1.1  
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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Xiaoxia Zhang</td> <td>08/19/2010</td> </tr> <tr> <td>Durga Prasad Malladi</td> <td>09/13/2010</td> </tr> <tr> <td>Yongbin Wei</td> <td>08/18/2010</td> </tr> <tr> <td>Hao Xu</td> <td>08/18/2010</td> </tr> <tr> <td>Tao Luo</td> <td>08/25/2010</td> </tr> </tbody> </table>		Name	Execution Date	Xiaoxia Zhang	08/19/2010	Durga Prasad Malladi	09/13/2010	Yongbin Wei	08/18/2010	Hao Xu	08/18/2010	Tao Luo	08/25/2010
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">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		
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<b>CORRESPONDENCE DATA</b>													
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:	092476												
NAME OF SUBMITTER:	Gayle Gestick												
Total Attachments: 15 source=092476_2010-09-13_Signed_ASST#page1.tif													

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**PATENT**  
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## 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. 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,
2. Durga Prasad Malladi, 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,
3. Yongbin Wei, a citizen of China, having a mailing address of 5775 Morehouse Drive, San Diego, California, USA 92121; and a resident of San Diego, CA,
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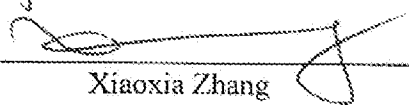
have sold, assigned and transferred and by these presents do sell, assign, transfer and set over unto QUALCOMM Incorporated, a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, its successors, legal representatives, or assigns, the entire right, title and interest in and to a certain invention relating to **SYSTEMS**,

## ASSIGNMENT

**APPARATUS AND METHODS FOR PHYSICAL RANDOM ACCESS CHANNEL PROCESSING** by us devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on **06/15/2010**, and assigned Serial No. **12/816,305**, including Provisional Application Number **61/187,572**, filed on **06/16/2009**, 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 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 19<sup>th</sup> day of August 2010.

  
\_\_\_\_\_  
Xiaoxia Zhang

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2010.

\_\_\_\_\_  
Durga Prasad Malladi

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2010.

\_\_\_\_\_  
Yongbin Wei

## ASSIGNMENT

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2010.

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Hao Xu

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Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2010.

\_\_\_\_\_  
Xiaoxia Zhang

Done at San Diego, California this <sup>m</sup> 13 day of Sep, 2010.

\_\_\_\_\_  
Durga Prasad Malladi

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2010.

\_\_\_\_\_  
Yongbin Wei

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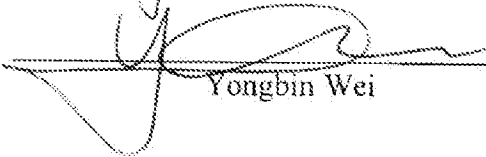
Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2010.

\_\_\_\_\_  
Xiaoxia Zhang

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2010.

\_\_\_\_\_  
Durga Prasad Malladi

Done at San Diego, California this 18<sup>th</sup> day of August 2010.

  
\_\_\_\_\_  
Yongbin Wei

## ASSIGNMENT

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2010.

\_\_\_\_\_  
Hao Xu

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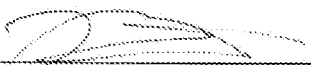
\_\_\_\_\_  
Durga Prasad Malladi

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2010.

\_\_\_\_\_  
Yongbin Wei

**ASSIGNMENT**

Done at San Diego, California this 18 day of Aug, 2010.

  
\_\_\_\_\_  
Hao Xu

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2010.

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Yongbin Wei



ASSIGNMENT

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2010.

\_\_\_\_\_  
Hao Xu

Done at San Diego, California this 25th day of August, 2010.

\_\_\_\_\_  
Tao Luo