

# PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Cheng-Han Wang</td> <td>03/06/2009</td> </tr> <tr> <td>Roger Brockenbrough</td> <td>03/06/2009</td> </tr> <tr> <td>Tzu-wang Pan</td> <td>03/06/2009</td> </tr> </tbody> </table>		Name	Execution Date	Cheng-Han Wang	03/06/2009	Roger Brockenbrough	03/06/2009	Tzu-wang Pan	03/06/2009		
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<b>RECEIVING PARTY DATA</b>											
<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 Dr.</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 Dr.	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> Phone: 858-845-4265 Email: US-Docketing@qualcomm.com Correspondent Name: QUALCOMM INCORPORATED Address Line 1: 5775 MOREHOUSE DR. Address Line 4: SAN DIEGO, CALIFORNIA 92121											
ATTORNEY DOCKET NUMBER:	081067										
NAME OF SUBMITTER:	Sheryl Schoen										
Total Attachments: 2 source=081067_2009-04-06_ASSIGN#page1.tif source=081067_2009-04-06_ASSIGN#page2.tif											

CH \$40.00 12254129

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**PATENT**  
 REEL: 022511 FRAME: 0516

## ASSIGNMENT

TO WHOM IT MAY CONCERN:

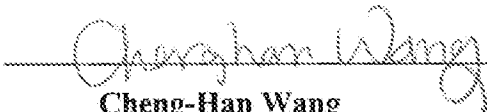
For the sum of One Dollar and other valuable consideration to us in hand paid, receipt of which is hereby acknowledged, be it known that We,

1. **Cheng-Han Wang**, a citizen of the United States of America, having a place of residence at 675 Briar Ranch Ln, San Jose, CA 95120, USA;
2. **Roger Brockenbrough**, a citizen of the United States of America, having a place of residence at 16000 Old Ranch Road, Los Gatos, CA 95033, USA; and
3. **Tzu-wang Pan**, a citizen of the United States of America, having a place of residence at 13958 Trinity Ct., Saratoga, CA 95070, USA;

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 **TUNABLE FILTERS WITH LOWER RESIDUAL SIDEBAND** by us devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on **October 20, 2008**, and assigned Application Number **12/254,129**, including, without limitation, all provisional patent applications, and all original and reissue patents granted thereof (in the United States and any foreign county), 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 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 Santa Clara, California, this 6th day of March, 2008.

  
Cheng-Han Wang

Done at Santa Clara, California, this 6th day of March, 2008.

  
Roger Brockenbrough

Done at Santa Clara, California, this 6th day of March, 2008.

  
Tzu-wang Pan