

## 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>Cheng-Han Wang</td><td>12/19/2008</td></tr><tr><td>Tzu-wang Pan</td><td>12/19/2008</td></tr></tbody></table>	Name	Execution Date	Cheng-Han Wang	12/19/2008	Tzu-wang Pan	12/19/2008	
Name	Execution Date						
Cheng-Han Wang	12/19/2008						
Tzu-wang Pan	12/19/2008						
RECEIVING PARTY DATA							
Name:	QUALCOMM Incorporated						
Street Address:	5775 Morehouse Dr.						
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>12254155</td></tr></tbody></table>	Property Type	Number	Application Number:	12254155			
Property Type	Number						
Application Number:	12254155						
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:	US-Docketing@qualcomm.com						
Correspondent Name:	QUALCOMM INCORPORATED						
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Address Line 4:	SAN DIEGO, CALIFORNIA 92121						
ATTORNEY DOCKET NUMBER:	081072						
NAME OF SUBMITTER:	Sheryl Schoen						
Total Attachments: 2 source=081072_2009-03-11_ASSIGN#page1.tif source=081072_2009-03-11_ASSIGN#page2.tif							

CH 12254155 \$40.00

## ASSIGNMENT

TO WHOM IT MAY CONCERN:

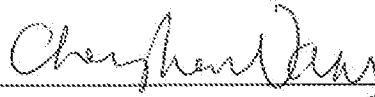
For the sum of One Dollar and other valuable consideration to us in hand paid, receipt of which is hereby acknowledged, be it known that We,

1. **Cheng-Han Wang**, a citizen of the Taiwan, having a place of residence at 675 Briar Ranch Lane, San Jose, CA 95120, USA; and
2. **Tzu-wang Pan**, a citizen of the United States of America, having a place of residence at 13958 Trinity Court, 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 FILTER WITH GAIN CONTROL CIRCUIT** 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 **12/254,155**, 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 19th day of December, 2008.

  
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Cheng-Han Wang

Done at Santa Clara, California this 19th day of December, 2008.

  
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Tzu-wang Pan