

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>Parvathanathan Subrahmanya</td><td>11/03/2001</td></tr><tr><td>Da-Shan Shiu</td><td>11/05/2001</td></tr><tr><td>Avneesh Agrawal</td><td>11/16/2001</td></tr></tbody></table>	Name	Execution Date	Parvathanathan Subrahmanya	11/03/2001	Da-Shan Shiu	11/05/2001	Avneesh Agrawal	11/16/2001	
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Parvathanathan Subrahmanya	11/03/2001								
Da-Shan Shiu	11/05/2001								
Avneesh Agrawal	11/16/2001								
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>11761329</td></tr></tbody></table>	Property Type	Number	Application Number:	11761329					
Property Type	Number								
Application Number:	11761329								
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:	010196C1								
NAME OF SUBMITTER:	George J. Oehling								
Total Attachments: 4 source=010196C1_ASSIGNMENT#page1.tif source=010196C1_ASSIGNMENT#page2.tif source=010196C1_ASSIGNMENT#page3.tif									

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PATENT
REEL: 019848 FRAME: 0959

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 I,

1. **Parvathanathan Subrahmanya**, a citizen of India, having a place of residence at 468 Madera Avenue, #1, Sunnyvale, Ca 94086;
2. **Da-shan Shiu**, a citizen of Taiwan, having a place of residence at 1280 San Tomas Aquino, #204, San Jose, Ca 95117; and
3. **Avneesh Agrawal**, a citizen of India, having a place of residence at 809 Pitkin Loop, San Jose, Ca 95125;

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 a **ADAPTIVE PILOT FILTER FOR A WIRELESS COMMUNICATION SYSTEM** by me co-devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on **August 7, 2001**, and assigned Serial No.: **09/924,199**, 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 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.

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ASSIGNMENT

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 CAMPBELL, California this 3rd day of November, 2001.

Subrahmanya
Subrahmanya

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Done at CAMPBELL, California this 5 day of Nov, 2001.

Shi-shan Shiu
Shi-shan Shiu

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Done at Campbell, California this 16th day of November 2001.

Avneesh Agrawal
Avneesh Agrawal