

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DA-SHAN SHIU	01/17/2003
DURGA P MALLADI	02/04/2003
SRIKRISHNA BHASHYAM	01/17/2003
RECEIVING PARTY DATA	
Name:	QUALCOMM Incorporated
Street Address:	5775 Morehouse Drive
Internal Address:	Patent Department/Central Administration
City:	San Diego
State/Country:	CALIFORNIA
Postal Code:	92121
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13046199
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NAME OF SUBMITTER:	Diane Epstein
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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 **DA-SHAN SHIU**, a citizen of Taiwan having a place of residence at **1280 SAN TOMAS AQUINO APT. 204, SAN JOSE, CALIFORNIA 95117**; **DURGA P. MALLADI**, a citizen of India having a place of residence at **11983 BRIARLEAF WAY, SAN DIEGO, CALIFORNIA 92128**; and **SRIKRISHNA BHASHYAM**, a citizen of India having a place of residence at **444 SARATOGA AVE APT. 3G, SANTA CLARA, CALIFORNIA 95050**; 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 whole right, title and interest in and to a certain invention relating to a **NOISE AND CHANNEL ESTIMATION USING LOW SPREADING FACTORS** by us devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on **November 7, 2002**, and assigned Application Serial No. **10/290,749**, 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 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 Jose, California this 17 day of January, 2003.



DA-SHAN SHIU

Done at San Diego, California this 4 day of February, 2003.



DURGA P. MALLADI

Done at Santa Clara, California this 17 day of January, 2003.



SRIKRISHNA BHASHYAM