PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Jay R. Walton	09/03/2002
John W. Ketchum	09/03/2002

RECEIVING PARTY DATA

Name:	Qualcomm Incorporated	
Street Address:	5775 Morehouse Drive	
City:	San Diego	
State/Country:	CALIFORNIA	
Postal Code:	92121	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11401758

CORRESPONDENCE DATA

Fax Number: (858)658-2502

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 8586585568

Email: llawlor@qualcomm.com
Correspondent Name: Qualcomm Incorporated
Address Line 1: 5775 Morehouse Drive

Address Line 4: San Diego, CALIFORNIA 92121

ATTORNEY DOCKET NUMBER: 020429C1

NAME OF SUBMITTER: Leeanne Lawlor

Total Attachments: 2

501296209

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PATENT REEL: 025015 FRAME: 0676 H \$40.00 11401

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 JAY R. WALTON, a citizen of the United States of America having a place of residence at 85 HIGHWOODS LANE, CARLISLE, MASSACHUSETTS 01741; and JOHN W. **KETCHUM**, a citizen of the United States of America having a place of residence at 37 CANDLEBERRY LANE, HARVARD, MASSACHUSETTS 01451; 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 DIVERSITY TRANSMISSION MODES FOR MIMO OFDM COMMUNICATION SYSTEMS by us devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on 06/24/2002, and assigned Application Serial No. 10/179,439, 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.

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[020429 ASSN2] Customer No. 23696 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 Carlisle, Massachusetts this 3 day of Sept., 2002.

JAY R. WALTON

Done at Harvard, Massachusetts this 3

_day of <u>Sept</u>, 2002

JOHN W KETCHUM

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[020429 ASSN2] Customer No. 23696

PATENT REEL: 025015 FRAME: 0678