

PATENT ASSIGNMENT

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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>Jack Steenstra</td><td>07/12/2004</td></tr><tr><td>Alexander Gantman</td><td>07/15/2004</td></tr><tr><td>John W. Noerenberg II</td><td>07/07/2004</td></tr><tr><td>Ahmad Jalali</td><td>07/07/2004</td></tr><tr><td>Gregory G. Rose</td><td>07/22/2004</td></tr></tbody></table>		Name	Execution Date	Jack Steenstra	07/12/2004	Alexander Gantman	07/15/2004	John W. Noerenberg II	07/07/2004	Ahmad Jalali	07/07/2004	Gregory G. Rose	07/22/2004
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RECEIVING PARTY DATA													
<table border="1"><tr><td>Name:</td><td>QUALCOMM Incorporated</td></tr><tr><td>Street Address:</td><td>5775 Morehouse Drive</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 Drive	City:	San Diego	State/Country:	CALIFORNIA	Postal Code:	92121		
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PROPERTY NUMBERS Total: 1													
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Application Number:	12365126												
CORRESPONDENCE DATA													
Fax Number: (858)658-2502													
Phone: 858-651-0159													
Email: tbadet@qualcomm.com													
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>													
Correspondent Name: QUALCOMM Incorporated													
Address Line 1: 5775 Morehouse Drive													
Address Line 4: San Diego, CALIFORNIA 92121													
ATTORNEY DOCKET NUMBER:	030464B2C1												
NAME OF SUBMITTER:	Karen M Cruz												

CH \$40.00 12365126

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PATENT
REEL: 027608 FRAME: 0544

Total Attachments: 5

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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 **Jack Steenstra**, a citizen of the United States of America having a place of residence at 9208 Fostoria Court, San Diego, California 92127, and **Alexander Gantman**, a citizen of the United States of America having a place of residence at 13242 Edina Way, Poway, California 92064, and **John W. Noerenberg II**, a citizen of the United States of America having a place of residence at 12343 Fig Tree Street, San Diego, California 92131, and **Ahmad Jalali**, a citizen of Canada having a place of residence at 17860 Avenida Amatijta, Rancho Santa Fe, California 92067, and **Gregory G. Rose**, a citizen of Australia having a place of residence at 40 Archer Street, Concord, Australia NSW2137; 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:


DIGITAL AUTHENTICATION OVER ACOUSTIC CHANNEL

by us devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on **February 23, 2004**, and assigned Serial No. **10/785,313**, including, without limitation, all provisional patent applications, 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 Diego, California this 12th day of July, 2004.


Jack Steenstra

Done at San Diego, California this _____ day of _____, 2004.

Alexander Gantman

Done at San Diego, California this _____ day of _____, 2004.

John W. Noerenberg II

Done at San Diego, California this _____ day of _____, 2004.

Ahmad Jalali

Done at Concord, Australia this _____ day of _____, 2004.

Gregory G. Rose

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 Diego, California this ____ day of ____, 2004.

Jack Steenstra

Done at San Diego, California this 15 day of July, 2004.



Alexander Gantman

Done at San Diego, California this ____ day of ____, 2004.

John W. Noerenberg II

Done at San Diego, California this ____ day of ____, 2004.

Ahmad Jalali

Done at Concord, Australia this ____ day of ____, 2004.

Gregory G. Rose

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 Diego, California this _____ day of _____, 2004.

Jack Steenstra

Done at San Diego, California this _____ day of _____, 2004.

Alexander Gantman

Done at San Diego, California this _____ day of _____, 2004.



John W. Noerenberg-II

Done at San Diego, California this 7th day of July, 2004.

Ahmad Jalali

Done at Concord, Australia this _____ day of _____, 2004.

Gregory G. Rose

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 Diego, California this ____ day of _____, 2004.

Jack Steenstra

Done at San Diego, California this ____ day of _____, 2004.

Alexander Gantman

Done at San Diego, California this ____ day of _____, 2004.

John W. Noerenberg II

Done at San Diego, California this 7 day of 7, 2004.

A. Jalali

Ahmad Jalali

San Diego, CA
Done at ~~Concord, Australia~~ this 22nd day of July, 2004.

Gregory G. Rose

Gregory G. Rose