

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Mingguang Xu	03/02/2009
Miguel Griot	03/17/2009
Pranav Dayal	02/02/2009
Ayman Fawzy Naguib	03/17/2009

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:	12363727

CORRESPONDENCE DATA

Fax Number: (858)658-2502
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
 Phone: 858-845-4265
 Email: llawlor@qualcomm.com
 Correspondent Name: QUALCOMM INCORPORATED
 Address Line 1: 5775 MOREHOUSE DR.
 Address Line 4: SAN DIEGO, CALIFORNIA 92121

ATTORNEY DOCKET NUMBER:	082546
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NAME OF SUBMITTER:	Leeanne Lawlor
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Total Attachments: 5
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**PATENT
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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,

1. **Mingguang Xu**, a citizen of **China**, having a place of residence at ~~2145 Sheridan Road, Evanston, IL, 60200, US~~; and *1512 Central Street, Apt. 883, Evanston, IL 60201, US*
M.X.
2. **Miguel Griot**, a citizen of **Italy**, having a place of residence at **313 16th Street, Apartment #6, Huntington, CA, 92648, US**; and
3. **Pranav Dayal**, a citizen of **India**, having a place of residence at **8520 Costa Verde Boulevard, #3407, San Diego, CA, 92122, US**; and
4. **Ayman Fawzy Naguib**, a citizen of the **United States**, having a place of residence at **991 Cranberry Drive, Cupertino, CA, 95014, US**,

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 **METHODS AND SYSTEMS FOR MIMO PREAMBLE DETECTION** by us devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on **January 31, 2009**, and assigned Application Number **12/363,727**, including, without limitation, all provisional patent applications, including Provisional Application Number **61/105,000**, filed on **October 13, 2008**, 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 Evanston, Illinois this 2nd day of March, 2009.

Mingguang Xu

MINGGUANG XU

Done at _____, California this _____ day of _____, 2009.

MIGUEL GRIOT

Done at San Diego, California this _____ day of _____, 2009.

PRANAV DAYAL

Done at _____, California this _____ day of _____, 2009.

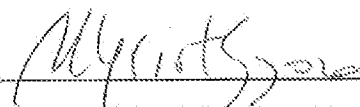
AYMAN FAWZY NAGUIB

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 _____, _____ this _____ day of _____, 2009.

MINGGUANG XU

Done at SAN DIEGO, California this 17th day of MARCH, 2009.



MIGUEL GRIOT

Done at San Diego, California this _____ day of _____, 2009.

PRANAV DAYAL

Done at _____, California this _____ day of _____, 2009.

AYMAN FAWZY NAGUIB

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.

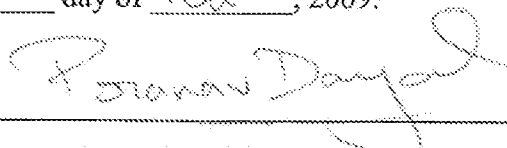
Done at _____, _____ this _____ day of _____, 2009.

MINGGUANG XU

Done at _____, California this _____ day of _____, 2009.

MIGUEL GRIOT

Done at San Diego, California this ^{2nd} _____ day of Feb, 2009.



PRANAV DAYAL

Done at _____, California this _____ day of _____, 2009.

AYMAN FAWZY NAGUIB

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 _____, _____ this _____ day of _____, 2009.

MINGGUANG XU

Done at _____, California this _____ day of _____, 2009.

MIGUEL GRIOT

Done at San Diego, California this _____ day of _____, 2009.

PRANAV DAYAL

Done at Santa Clara, California this 17th day of March, 2009.



AYMAN FAWZY NAGUIB