

**PATENT ASSIGNMENT**

Electronic Version v1.1  
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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
<b>CONVEYING PARTY DATA</b>									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Siddhartha Mallik</td> <td>10/04/2010</td> </tr> <tr> <td>Alexei Yurievitch Gorokhov</td> <td>10/04/2010</td> </tr> <tr> <td>Wooseok Nam</td> <td>10/05/2010</td> </tr> </tbody> </table>		Name	Execution Date	Siddhartha Mallik	10/04/2010	Alexei Yurievitch Gorokhov	10/04/2010	Wooseok Nam	10/05/2010
Name	Execution Date								
Siddhartha Mallik	10/04/2010								
Alexei Yurievitch Gorokhov	10/04/2010								
Wooseok Nam	10/05/2010								
<b>RECEIVING PARTY DATA</b>									
Name:	QUALCOMM Incorporated								
Street Address:	5775 Morehouse Drive								
City:	San Diego								
State/Country:	CALIFORNIA								
Postal Code:	92121-1714								
<b>PROPERTY NUMBERS Total: 1</b>									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12893610</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12893610				
Property Type	Number								
Application Number:	12893610								
<b>CORRESPONDENCE DATA</b>									
Fax Number:	(858)658-2502								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	(858) 651-5205								
Email:	usdocketing@qualcomm.com								
Correspondent Name:	QUALCOMM Incorporated								
Address Line 1:	5775 Morehouse Drive								
Address Line 4:	San Diego, CALIFORNIA 92121-1714								
ATTORNEY DOCKET NUMBER:	093571								
NAME OF SUBMITTER:	Denise Miles								

Total Attachments: 6  
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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. Siddhartha Mallik, a citizen of India, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, United States of America; and a resident of San Diego, California, United States of America,

2. Alexei Yurievitch Gorokhov, a citizen of the United States of America, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, United States of America; and a resident of San Diego, California, United States of America,

3. Wooseok Nam, a citizen of Korea, having a mailing address of MegaCentum Hanhwa Apt. 107-1901, Banyeo-1-dong Haundae-gu, Busan, South Korea; and a resident of Busan, South Korea,

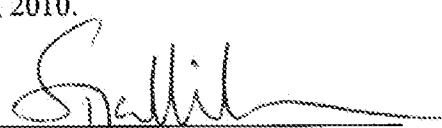
have sold, assigned and transferred and by these presents do sell, assign, transfer and set over unto QUALCOMM Incorporated, a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, its successors, legal representatives, or assigns, the entire right, title and interest in and to a certain invention relating to **SCALABLE QUANTIZATION OF CHANNEL STATE INFORMATION FOR MIMO TRANSMISSION** by us devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on **September 29, 2010**, and assigned Serial No. **12/893,610**, including Provisional Application Number **61/247,763**, filed on

## ASSIGNMENT

**October 1, 2009**, and Provisional Application Number **61/249,726**, filed on **October 8, 2009**, and all original and reissue patents granted thereof (in the United States and any foreign country), and all divisionals, continuations and continuations-in-part 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 <sup>4<sup>th</sup></sup> ~~10<sup>th</sup>~~ day of October, 2010.

  
\_\_\_\_\_  
Siddhartha Mallik

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2010.

\_\_\_\_\_  
Alexei Yurievitch Gorokhov

Done at Busan, South Korea this \_\_\_\_\_ day of \_\_\_\_\_, 2010.

\_\_\_\_\_  
Wooseok Nam

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Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2010.

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Siddhartha Mallik

Done at San Diego, California this 4<sup>th</sup> day of October, 2010.

  
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Siddhartha Mallik

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2010.

\_\_\_\_\_  
Alexei Yurievitch Gorokhov

Done at Busan, South Korea this 5<sup>th</sup> day of October, 2010.

Wooseok Nam

\_\_\_\_\_  
Wooseok Nam