

**PATENT ASSIGNMENT**

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Byoung-Hoon Kim	02/07/2008
Hao Xu	02/07/2008
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	QUALCOMM Incorporated
<b>Street Address:</b>	5775 Morehouse Drive
<b>City:</b>	San Diego
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92121-1714
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	13190160
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(858)658-2502
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<b>ATTORNEY DOCKET NUMBER:</b>	070651D1
<b>NAME OF SUBMITTER:</b>	Judy Bridgwater
<b>Total Attachments: 2</b> source=070651_2008-02-07_ASST#page1.tif source=070651_2008-02-07_ASST#page2.tif	

CH \$40.00 13190160

## 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. Byoung-Hoon Kim, a citizen of South Korea, having a place of residence at 5235 Fiore Terrace C-220, San Diego CA 92122;
2. Hao Xu, a citizen of China P.R., having a place of residence at 12156 Via Milano, San Diego CA 92128;

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 **MIMO Transmission With Rank-Dependent Precoding** by us devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on February 7, 2008, and assigned Serial No. 12/027,921 including Provisional Application Number 60/889,255 filed on 2/9/2007, 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 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.


ASSIGNMENT

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 7<sup>th</sup> day of February, 2008.

  
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Byoung-Hoon Kim

Done at San Diego, California this 7 day of February, 2008.

  
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Hao Xu