

**PATENT ASSIGNMENT**

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
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Matthew Michael Nowak	08/06/2009
Jonghae Kim	08/06/2009
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
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Total Attachments: 2

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## ASSIGNMENT

### **Partitioning a Crossbar Interconnect in a Multi-Channel Memory System**

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/I,

1. Feng Wang, a citizen of China, having a mailing address of 5775 Morehouse Drive, San Diego, CA 92121; and a resident of San Diego, California.
2. Matthew Michael Nowak, a citizen of United States, having a mailing address of 5775 Morehouse Drive, San Diego, CA 92121; and a resident of San Diego, California.
3. Jonghae Kim, a citizen of Korea, having a mailing address of 5775 Morehouse Drive, San Diego, CA 92121; and a resident of San Diego, California.

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 **Partitioning a Crossbar Interconnect in a Multi-Channel Memory System** by me devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on August 6, 2009, and assigned Serial No. 12/536,991, (and I hereby authorize and instruct QUALCOMM Incorporated to hereafter complete this Assignment by inserting the serial number and date in the space provided above when known),

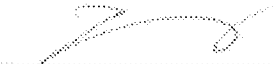
## ASSIGNMENT

### Partitioning a Crossbar Interconnect in a Multi-Channel Memory System

and all original and reissue patents granted thereof, and all divisions, 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 I have full right to do so, and agree that I 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.

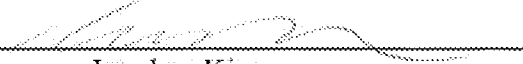
Done at San Diego, California this 6 day of August, 2009.

  
\_\_\_\_\_  
Feng Wang

Done at San Diego, California this 6 day of August, 2009.

  
\_\_\_\_\_  
Matthew Michael Nowak

Done at San Diego, California this 6 day of August, 2009.

  
\_\_\_\_\_  
Jonghae Kim