

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Xiaochun Zhu</td> <td>01/13/2009</td> </tr> <tr> <td>Matthew Nowak</td> <td>01/13/2009</td> </tr> <tr> <td>Xia Li</td> <td>01/13/2009</td> </tr> <tr> <td>Seung H. Kang</td> <td>01/13/2009</td> </tr> </tbody> </table>		Name	Execution Date	Xiaochun Zhu	01/13/2009	Matthew Nowak	01/13/2009	Xia Li	01/13/2009	Seung H. Kang	01/13/2009		
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>QUALCOMM Incorporated</td> </tr> <tr> <td>Street Address:</td> <td>5775 Morehouse Drive</td> </tr> <tr> <td>Internal Address:</td> <td>Patent Department</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>92121-1714</td> </tr> </table>		Name:	QUALCOMM Incorporated	Street Address:	5775 Morehouse Drive	Internal Address:	Patent Department	City:	San Diego	State/Country:	CALIFORNIA	Postal Code:	92121-1714
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CORRESPONDENCE DATA													
<p>Fax Number: (858)658-2502</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 858-658-5787</p> <p>Email: nanm@qualcomm.com</p> <p>Correspondent Name: QUALCOMM Incorporated</p> <p>Address Line 1: 5775 Morehouse Drive</p> <p>Address Line 2: Patent Department</p> <p>Address Line 4: San Diego, CALIFORNIA 92121-1714</p>													
ATTORNEY DOCKET NUMBER:	081370												
NAME OF SUBMITTER:	Peter M. Kamarchik												

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PATENT
REEL: 022544 FRAME: 0363

Total Attachments: 2

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ASSIGNMENT

TO WHOM IT MAY CONCERN:

For the sum of One Dollar and other valuable consideration to me in hand paid, receipt of which is hereby acknowledged, be it known that I,

Xiaochun Zhu, a citizen of China, having a place of residence at, 2636 Grand Ave. #232, San Diego, CA 92109

Matthew Nowak, a citizen of the United States, having a place of residence at 10965 Elderwood Road, San Diego, CA 92131

Xia Li, a citizen of China, having a place of residence at 12642 Carmel Country Road #143, San Diego, CA 92130

Seung H. Kang, a citizen of South Korea, having a place of residence at 4143 Twilight Ridge, San Diego, CA 92130

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:

**MAGNETIC TUNNEL JUNCTION (MTJ) AND METHODS, AND MAGNETIC
RANDOM ACCESS MEMORY (MRAM) EMPLOYING SAME**

by me devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on April 14, 2009, and assigned Serial No. 12/423,298 (and I hereby authorize and instruct **QUALCOMM Incorporated** to hereafter complete this Assignment by inserting the serial number in the space provided above when known), 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 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.

**MAGNETIC TUNNEL JUNCTION (MTJ) AND METHODS, AND MAGNETIC
RANDOM ACCESS MEMORY (MRAM) EMPLOYING SAME**

The Commissioner of Patents and Trademarks is requested to issue the Letters Patent that may be granted for said invention or any part thereof unto said corporation in keeping with this Assignment.

Executed at San Diego, California this

13th day of January, 2009. Xiaochun Zhu
Xiaochun Zhu

Executed at San Diego, California this

13th day of January, 2009. Matthew Nowak
Matthew Nowak

Executed at San Diego, California this

13th day of Jan, 2009. Xia Li
Xia Li

Executed at San Diego, California this

13th day of Jan, 2009. Seung H. Kang
Seung H. Kang