

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>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Xiaochun Zhu</td> <td>08/28/2008</td> </tr> <tr> <td>Seung H. Kang</td> <td>08/28/2008</td> </tr> <tr> <td>Xia Li</td> <td>08/28/2008</td> </tr> </tbody> </table>		Name	Execution Date	Xiaochun Zhu	08/28/2008	Seung H. Kang	08/28/2008	Xia Li	08/28/2008
Name	Execution Date								
Xiaochun Zhu	08/28/2008								
Seung H. Kang	08/28/2008								
Xia Li	08/28/2008								
RECEIVING PARTY DATA									
Name:	QUALCOMM Incorporated								
Street Address:	5775 Morehouse Drive								
Internal Address:	Patent Department								
City:	San Diego								
State/Country:	CALIFORNIA								
Postal Code:	92121-1714								
PROPERTY NUMBERS Total: 1									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12236956</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12236956				
Property Type	Number								
Application Number:	12236956								
CORRESPONDENCE DATA									
Fax Number:	(858)658-2502								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	858-658-5787								
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Address Line 4:	San Diego, CALIFORNIA 92121-1714								
ATTORNEY DOCKET NUMBER:	081606								
NAME OF SUBMITTER:	John L. Ciccozzi								
Total Attachments: 2									

CH \$40.00 12236956

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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

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

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

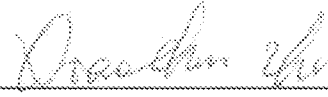
have sold, assigned and transferred and, by these presents, do sell, assign, transfer and set over unto **QUALCOMM Incorporated**, a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, its successors, legal representatives, or assigns, the whole right, title and interest in and to a certain invention relating to:

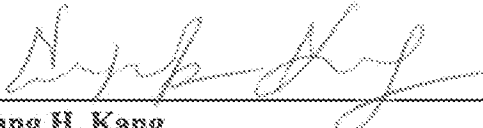
**REDUCING SPIN PUMPING INDUCED DAMPING OF A
FREE LAYER OF A MEMORY DEVICE**


by me devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on September 24, 2008, and assigned Serial No. 12/236,956 (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.

**REDUCING SPIN PUMPING INDUCED DAMPING OF A
FREE LAYER OF A MEMORY DEVICE**

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, CA this
28 day of Aug, 2008. 
Xiaochun Zhu

Executed at San Diego, CA this
28 day of Aug, 2008. 
Seung H. Kang

Executed at San Diego, CA this
28 day of Aug, 2008. 
Xia Li