

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>Seong-Ook Jung</td> <td>06/06/2008</td> </tr> <tr> <td>Mehdi Hamidi Sani</td> <td>06/06/2008</td> </tr> <tr> <td>Seung H. Kang</td> <td>06/06/2008</td> </tr> <tr> <td>Sei Seung Yoon</td> <td>06/06/2008</td> </tr> </tbody> </table>		Name	Execution Date	Seong-Ook Jung	06/06/2008	Mehdi Hamidi Sani	06/06/2008	Seung H. Kang	06/06/2008	Sei Seung Yoon	06/06/2008
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Mehdi Hamidi Sani	06/06/2008										
Seung H. Kang	06/06/2008										
Sei Seung Yoon	06/06/2008										
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>12163359</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12163359						
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Application Number:	12163359										
CORRESPONDENCE DATA											
Fax Number:	(858)658-2502										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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ATTORNEY DOCKET NUMBER:	070826										
NAME OF SUBMITTER:	John L. Ciccozzi										

CH \$40.00 12163359

Total Attachments: 3

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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:

Seong-Ook Jung, a citizen of South Korea, having a place of residence at 305-2001 Baengma Maeul 3 danji Apt. Madu 1-dong Ilsan Dong-gu, Goyang-si Gyeonggi-do, Seoul 410-709, Korea

Mehdi Hamidi Sani, a citizen of the United States, having a place of residence at 14186 Rancho Santa Fe Lakes Drive, Rancho Santa Fe, Ca, 92067

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

Sei Seung Yoon, a citizen of South Korea, having a place of residence at 5436 Sonoma Place, 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 and **Yonsei University**, having a place of business at 134 Sinchon-dong, Seodaemun-gu, Seoul 120-749, Korea,, its successors, legal representatives, or assigns, the whole right, title and interest in and to a certain invention relating to:

WRITE OPERATION FOR SPIN TRANSFER TORQUE MAGNETORESISTIVE RANDOM ACCESS MEMORY WITH REDUCED BIT CELL SIZE

by me devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on June 27, 2008, and assigned Serial No. 12/163,359 (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.

**WRITE OPERATION FOR SPIN TRANSFER
TORQUE MAGNETORESISTIVE RANDOM
ACCESS MEMORY WITH REDUCED BIT CELL SIZE**

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 Seoul, Korea this

6th day of June, 2008. *Juny Seong Gole*
Seong-Gok Jung

Executed at San Diego, California this

_____ day of _____, 2008. _____
Mehdi Hamidi Sani

Executed at San Diego, California this

_____ day of _____, 2008. _____
Seung H. Kang

Executed at San Diego, California this

_____ day of _____, 2008. _____
Sei Seung Yoon

**WRITE OPERATION FOR SPIN TRANSFER
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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 Seoul, Korea this

_____ day of _____, 2008. _____
Seong-Ook Jung

Executed at San Diego, California this

6th day of JUNE, 2008. _____
Mehdi Hamidi Sani

Executed at San Diego, California this

6th day of June, 2008. _____
Seung H. Kang

Executed at San Diego, California this

6th day of June, 2008. _____
Sei Seung Yoon