

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Seong-Ook Jung</td><td>04/10/2008</td></tr><tr><td>Jisu Kim</td><td>04/10/2008</td></tr><tr><td>Jee-Hwan Song</td><td>04/10/2008</td></tr><tr><td>Seung H. Kang</td><td>03/26/2008</td></tr><tr><td>Sei Seung Yoon</td><td>03/26/2008</td></tr></tbody></table>	Name	Execution Date	Seong-Ook Jung	04/10/2008	Jisu Kim	04/10/2008	Jee-Hwan Song	04/10/2008	Seung H. Kang	03/26/2008	Sei Seung Yoon	03/26/2008	
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Jee-Hwan Song	04/10/2008												
Seung H. Kang	03/26/2008												
Sei Seung Yoon	03/26/2008												
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"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12107252</td></tr></tbody></table>	Property Type	Number	Application Number:	12107252									
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Application Number:	12107252												
CORRESPONDENCE DATA													
Fax Number:	(858)658-2502												
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Address Line 4:	San Diego, CALIFORNIA 92121-1714												
ATTORNEY DOCKET NUMBER:	071989												

CH \$40.00 12107252

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PATENT  
REEL: 020839 FRAME: 0039

NAME OF SUBMITTER:

Nicholas J. Pauley

Total Attachments: 5

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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, IisanDong-gu, Goyang-si, Gyeonggi-do, Seoul 410-709 Korea.

**Jisu Kim**, a citizen of South Korea, having a place of residence at 577-39 Seongnam 2-dong Seo-gu Incheon, Seoul 404-829 Korea.

**Jee-Hwan Song**, a citizen of South Korea, having a place of residence at 216-302 Hansin Apt., Jamwon-dong, Secho-gu, Seoul 137-949, Korea

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

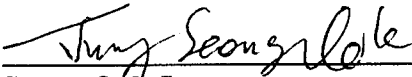
**Sei Seung Yoon**, a citizen of South Korea, having a place of residence at 5436 Sonoma Place, San Diego CA 92130

have sold, assigned and transferred and, by these presents, do sell, assign, transfer and set over unto **Yonsei University** and **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:

### **System and Method of Resistance Based Memory Circuit Parameter Adjustment**

by me devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on April 22, 2008, and assigned Serial No. 12/107,252 (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.

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.

Done at Seoul, Korea this  
10th day of April, 2008.   
**Seong-Ook Jung**

Done at Seoul, Korea this  
\_\_\_\_ day of \_\_\_\_\_, 2008. \_\_\_\_\_  
**Jisu Kim**

Done at Seoul, Korea this  
\_\_\_\_ day of \_\_\_\_\_, 2008. \_\_\_\_\_  
**Jee-Hwan Song**

Done at San Diego, California this  
\_\_\_\_ day of \_\_\_\_\_, 2008. \_\_\_\_\_  
**Seung H. Kang**

Done at San Diego, California this  
\_\_\_\_ day of \_\_\_\_\_, 2008. \_\_\_\_\_  
**Sei Seung Yoon**

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Done at Seoul, Korea this  
\_\_\_\_\_ day of \_\_\_\_\_, 2008.

\_\_\_\_\_  
**Seong-Ook Jung**

Done at Seoul, Korea this  
10<sup>th</sup> day of April, 2008.

  
\_\_\_\_\_  
**Jisu Kim**

Done at Seoul, Korea this  
\_\_\_\_\_ day of \_\_\_\_\_, 2007.

\_\_\_\_\_  
**Jee-Hwan Song**

Done at San Diego, California this  
\_\_\_\_\_ day of \_\_\_\_\_, 2007.

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**Seong-Ook Jung**

Done at Seoul, Korea this \_\_\_\_\_ day of \_\_\_\_\_, 2008. \_\_\_\_\_  
**Jisu Kim**

Done at Seoul, Korea this 10<sup>th</sup> day of April, 2008.  \_\_\_\_\_  
**Jee-Hwan Song**

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2008. \_\_\_\_\_  
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Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2008. \_\_\_\_\_  
**Seong-Ook Jung**

Done at Seoul, Korea this \_\_\_\_\_ day of \_\_\_\_\_, 2008. \_\_\_\_\_  
**Jisu Kim**

Done at Seoul, Korea this \_\_\_\_\_ day of \_\_\_\_\_, 2007. \_\_\_\_\_  
**Jee-Hwan Song**

Done at San Diego, California this 26th day of March, 2007. \_\_\_\_\_  
**Seung H. Kang**

Done at San Diego, California this 26th day of March, 2007. \_\_\_\_\_  
**Sei Seung Yoon**