

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT | | | | | | | | | | | | |
|--|---|---------------|---|---------------------|--------------------------------|-------------------|-------------------|----------------|--------------------|----------------|------------|--------------|------------|
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the REMOVE EXTRA INCORRECT APPLICATION NUMBER previously recorded on Reel 024152 Frame 0930. Assignor(s) hereby confirms the CORRECT APPLICATION NUMBER TIED TO THIS ASSIGNMENT IS 12691415. | | | | | | | | | | | | |
| 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>10/21/2009</td> </tr> <tr> <td>Jisu Kim</td> <td>10/19/2009</td> </tr> <tr> <td>Jee-Hwan Song</td> <td>10/19/2009</td> </tr> <tr> <td>Seung H. Kang</td> <td>10/08/2009</td> </tr> </tbody> </table> | | Name | Execution Date | Seong-Ook Jung | 10/21/2009 | Jisu Kim | 10/19/2009 | Jee-Hwan Song | 10/19/2009 | Seung H. Kang | 10/08/2009 | | |
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| Seong-Ook Jung | 10/21/2009 | | | | | | | | | | | | |
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| RECEIVING PARTY DATA | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>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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| State/Country: | CALIFORNIA | | | | | | | | | | | | |
| Postal Code: | 92121-1714 | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Name:</td> <td>Industry-Academic Cooperation Foundation, Yonsei University</td> </tr> <tr> <td>Street Address:</td> <td>134 Sinchon-dong, Seodaemun-gu</td> </tr> <tr> <td>City:</td> <td>Seoul</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> <tr> <td>Postal Code:</td> <td>120-749</td> </tr> </table> | | Name: | Industry-Academic Cooperation Foundation, Yonsei University | Street Address: | 134 Sinchon-dong, Seodaemun-gu | City: | Seoul | State/Country: | KOREA, REPUBLIC OF | Postal Code: | 120-749 | | |
| Name: | Industry-Academic Cooperation Foundation, Yonsei University | | | | | | | | | | | | |
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| City: | Seoul | | | | | | | | | | | | |
| State/Country: | KOREA, REPUBLIC OF | | | | | | | | | | | | |
| Postal Code: | 120-749 | | | | | | | | | | | | |
| 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>12691415</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 12691415 | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | |
| Application Number: | 12691415 | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | |
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| NAME OF SUBMITTER: | Sam Talpalatsky |
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Total Attachments: 5

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ASSIGNMENT

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,

Seong-Ook Jung, a citizen of Korea, having a mailing address of 510-504 Baeksong Maeul 5-danji Baekseok 1-dong IlsanDong=gu, Goyang-si Gyeonggi-do, Seoul 410-720; and a resident of Korea.

Jisu Kim, a citizen of Korea, having a mailing address of 504-15 Seongnam-dong Seo-gu, Incheon 404-826; and a resident of Korea.

Jee-Hwan Song, a citizen of Korea, having a mailing address of 216 Sinbanpo Hanshin Apt. Jamwon-dong Seocho-gu, Seoul 137-949; and a resident of Korea.

Seung H. Kang, a citizen of Korea, having a mailing address of 5775 Morehouse Drive, San Diego, CA 92121; and a resident of San Diego, California.

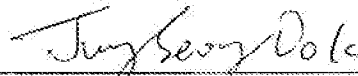
have sold, assigned and transferred and by these presents do sell, assign, transfer and set over unto **QUALCOMM Incorporated**, a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714 and **Industry-Academic Cooperation Foundation, Yonsei University**, having a place of business at 134 Sinchon-dong, Seodaemun-gu, Seoul 120-749, Korea, its successors, legal representatives, or assigns, the entire right, title

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and interest in and to a certain invention relating to **System And Method Of Adjusting A Resistance-Based Memory Circuit** by me devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on January 21, 2010, and assigned Serial No. 12/1091415, (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), including, without limitation, all provisional patent applications, 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 Seoul, Korea this 21 day of 10, 2009.



Seong-Ook Jung

Done at Incheon, Korea this _____ day of _____, 2009.

Jisu Kim

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and interest in and to a certain invention relating to **System And Method Of Adjusting A Resistance-Based Memory Circuit** by me devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on _____, and assigned Serial No. _____, (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), including, without limitation, all provisional patent applications, 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 Seoul, Korea this _____ day of _____, 2009.

Seong-Ook Jung

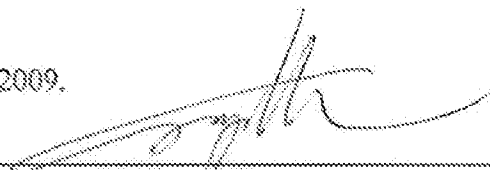
Done at Incheon, Korea this 19th day of October, 2009.



Jisu Kim

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Done at Seoul, Korea this 19th day of October, 2009.



Jee-Hwan Song

Done at San Diego, California this _____ day of _____, 2009.

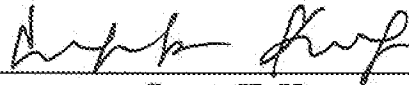
Seung H. Kang

ASSIGNMENT

Done at San Diego, California this _____ day of _____, 2009.

Jee-Hwan Song

Done at San Diego, California this 8th day of October, 2009.



Seung H. Kang