

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| 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>Kangho Lee</td> <td>01/19/2009</td> </tr> <tr> <td>Seung H. Kang</td> <td>01/19/2009</td> </tr> <tr> <td>Xiaochun Zhu</td> <td>01/19/2009</td> </tr> </tbody> </table> | | Name | Execution Date | Kangho Lee | 01/19/2009 | Seung H. Kang | 01/19/2009 | Xiaochun Zhu | 01/19/2009 | | | | |
| Name | Execution Date | | | | | | | | | | | | |
| Kangho Lee | 01/19/2009 | | | | | | | | | | | | |
| Seung H. Kang | 01/19/2009 | | | | | | | | | | | | |
| Xiaochun Zhu | 01/19/2009 | | | | | | | | | | | | |
| 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 |
| 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>14027503</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 14027503 | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | |
| Application Number: | 14027503 | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | |
| <p>Fax Number: 8586582502 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 858-658-4351 Email: us-docketing@qualcomm.com</p> <p>Correspondent Name: QUALCOMM Incorporated Address Line 1: 5775 Morehouse Drive Address Line 2: Patent Department Address Line 4: San Diego, CALIFORNIA 92121-1714</p> | | | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 081958D1 | | | | | | | | | | | | |
| NAME OF SUBMITTER: | Sam Talpalatsky | | | | | | | | | | | | |
| Signature: | /Sam Talpalatsky/ | | | | | | | | | | | | |

PATENT

Date:

09/16/2013

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,

**Kangho Lee, a citizen of the South Korea, having a place of residence at
11515 Caminito La Bar, Apt. 82, San Diego, CA 92126**

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

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

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 SOURCE LOADING EFFECT IN SPIN
TORQUE TRANSFER MAGNETORESISTIVE RANDOM
ACCESS MEMORY (STT-MRAM)**

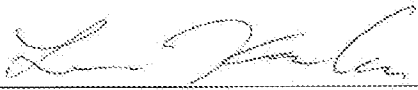
by me devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on March 2, 2009, and assigned Serial No. 12/396,295 (and I hereby authorize and instruct **QUALCOMM Incorporated** to hereafter complete this Assignment by inserting the serial 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 SOURCE LOADING EFFECT IN SPIN
TORQUE TRANSFER MAGNETORESISTIVE RANDOM
ACCESS MEMORY (STT-MRAM)

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

19 day of Jan., 2009.


Kangho Lee

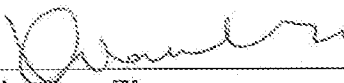
Executed at San Diego, California this

19th day of January, 2009.


Seung H. Kang

Executed at San Diego, California this

19th day of Jan., 2009.


Xiaochun Zhu