

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2684595

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>HARI M. RAO</td> <td>07/05/2011</td> </tr> <tr> <td>XIAOCHUN ZHU</td> <td>07/05/2011</td> </tr> </tbody> </table>		Name	Execution Date	HARI M. RAO	07/05/2011	XIAOCHUN ZHU	07/05/2011
Name	Execution Date						
HARI M. RAO	07/05/2011						
XIAOCHUN ZHU	07/05/2011						
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>14156541</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14156541		
Property Type	Number						
Application Number:	14156541						
CORRESPONDENCE DATA							
Fax Number:	(858)658-2502						
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<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>							
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ATTORNEY DOCKET NUMBER:	101906D1						
NAME OF SUBMITTER:	SAM TALPALATSKY						
Signature:	/Sam Talpalatsky/						

Date:

01/16/2014

Total Attachments: 2

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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,

1. Hari M. Rao, a citizen of the United States, having a mailing address of 5775 Morehouse Drive, San Diego, CA 92121; and a resident of San Diego, California

2. Xiaochun Zhu, a citizen of China, having a mailing address of 5775 Morehouse Drive, San Diego, CA 92121; and a resident of San Diego, California

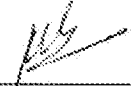
have sold, assigned and transferred and by these presents do sell, assign, transfer and set over unto QUALCOMM Incorporated, a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, its successors, legal representatives, or assigns, the entire right, title and interest in and to a certain invention relating to **MRAM Sensing with Magnetically Annealed Reference Cell** by me devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on July 11, 2011, and assigned Serial No. 13/179,631, (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,

## ASSIGNMENT

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 San Diego, California this 5<sup>th</sup> day of July, 2011

  
\_\_\_\_\_  
Hari M. Rao

Done at San Diego, California this 5<sup>th</sup> day of July, 2011

  
\_\_\_\_\_  
Xiaochun Zhu