

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Hari M. Rao	07/19/2010
Jung Pill Kim	07/19/2010
Seung H. Kang	07/19/2010
Xiaochun Zhu	07/19/2010
Tae Hyun Kim	07/19/2010
Kangho Lee	07/19/2010
Xia Li	07/19/2010
Wah Nam Hsu	07/19/2010
Wuyang Hao	07/20/2010
Jungwon Suh	07/19/2010
Nicholas K. Yu	07/19/2010
Matthew Michael Nowak	07/19/2010
Steven M. Millendorf	07/08/2010
Asaf Ashkenazi	07/23/2010

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

Property Type	Number
Application Number:	12849043

CORRESPONDENCE DATA

CH \$40.00 12849043

501250761

**PATENT
 REEL: 024778 FRAME: 0281**

Fax Number: (858)658-2502
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 858-658-5787
Email: Patent.Docketing.US@qualcomm.com
Correspondent Name: QUALCOMM Incorporated
Address Line 1: 5775 Morehouse Drive
Address Line 2: Patent Department
Address Line 4: San Diego, CALIFORNIA 92121-1714

ATTORNEY DOCKET NUMBER:	100078
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NAME OF SUBMITTER:	Sam Talpalatsky
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Total Attachments: 10
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ASSIGNMENT**Generating a Non-Reversible State at a Bitcell Having a First Magnetic Tunnel Junction
and a Second Magnetic Tunnel Junction**

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 India, having a mailing address of 5775 Morehouse Drive, San Diego, CA 92121; and a resident of San Diego, California
2. Jung Pill Kim, a citizen of Korea, having a mailing address of 5775 Morehouse Drive, San Diego, CA 92121; and a resident of San Diego, California
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ASSIGNMENT**Generating a Non-Reversible State at a Bitcell Having a First Magnetic Tunnel Junction
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14. Asaf Ashkenazi, a citizen of Israel, 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 **Generating a Non-Reversible State at a Bitcell Having a First Magnetic Tunnel Junction and a Second Magnetic Tunnel Junction** by me devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on August 3, 2010, and assigned Serial No. 12/849,043, (and I hereby authorize and instruct **QUALCOMM Incorporated** to hereafter complete this Assignment by

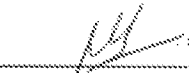
ASSIGNMENT

Generating a Non-Reversible State at a Bitcell Having a First Magnetic Tunnel Junction and a Second Magnetic Tunnel Junction

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.

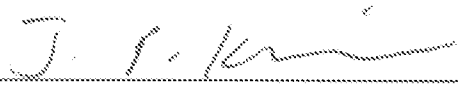
The Commissioner of Patents and Trademarks is requested to issue the Letters Patent which may be granted for said invention or any part thereof unto said corporation in keeping with this Assignment.

Done at San Diego, California this 19th day of July, 2010.



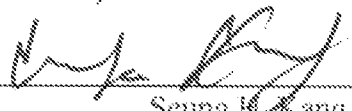
Hari M. Rao

Done at San Diego, California this 19th day of July, 2010.



Jung Pill Kim

Done at San Diego, California this 19th day of July, 2010.

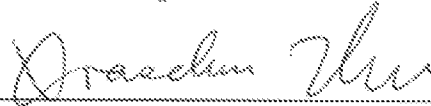


Seung Il Kang

ASSIGNMENT

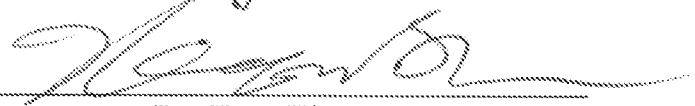
Generating a Non-Reversible State at a Bitcell Having a First Magnetic Tunnel Junction
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Done at San Diego, California this 19th day of July, 2010.



Xiaochun Zhu

Done at San Diego, California this 19th day of July, 2010.



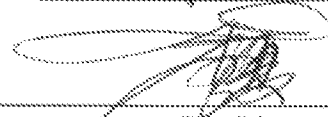
Tae Hyun Kim

Done at San Diego, California this 19th day of July, 2010.



Kangho Lee

Done at San Diego, California this 19th day of July, 2010.



Xia Li

Done at San Diego, California this 19th day of July, 2010.

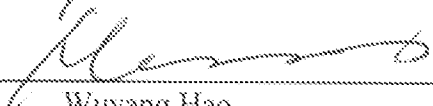


Wah Nam Hsu

ASSIGNMENT

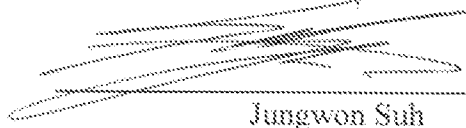
**Generating a Non-Reversible State at a Bitcell Having a First Magnetic Tunnel Junction
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Done at San Diego, California this 20th day of July, 2010.



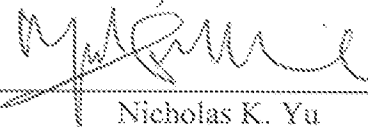
Wuyang Hao

Done at San Diego, California this 19th day of July, 2010.



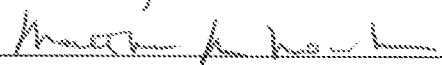
Jungwon Suh

Done at San Diego, California this 19th day of July, 2010.



Nicholas K. Yu

Done at San Diego, California this 19th day of July, 2010.

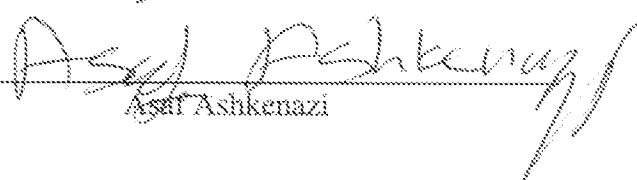


Matthew Michael Nowak

Done at San Diego, California this 23rd day of July, 2010.

Steven M. Millendorf

Done at San Diego, California this 23rd day of July, 2010.



Asaf Ashkenazi

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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 _____ day of _____, 2010.

Hari M. Rao

Done at San Diego, California this _____ day of _____, 2010.

Jung Pill Kim

Done at San Diego, California this _____ day of _____, 2010.

Seung H. Kang

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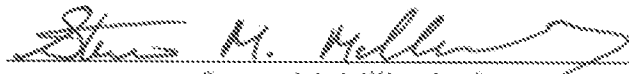
Done at San Diego, California this _____ day of _____, 2010.

Nicholas K. Yu

Done at San Diego, California this _____ day of _____, 2010.

Matthew Michael Nowak

Done at Raleigh, North Carolina this 8 day of JULY, 2010.



Steven M. Millendorf

Done at Raleigh, North Carolina this _____ day of _____, 2010.

Asaf Ashkenazi