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Form PTO-1595
(Rev. 03/01)

1/22/02 REC



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U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

OMB No. 0651-0027 (exp. 5/31/2002)

Tab settings

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Qiuqun Qi
Xizeng Shi
Matthew R. Gibbons

2. Name and address of receiving party(ies)

Name: Read-Rite Corporation

Internal Address:

Street Address: 44100 Osgood Road

City: Fremont State: CA Zip: 94539

Case U.S. PTO
10/055118
01/22/02

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: January 18, 2002

Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: 1/18/2002

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

10/055118

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Carr & Ferrell LLP

Internal Address:

Street Address: 2225 East Bayshore Road, Suite 200

City: Palo Alto State: CA Zip: 94303

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

06-0600

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Robert D. Hayden, Reg. No. 42,645

Robert D. Hayden
Signature

January 22, 2002

Name of Person Signing

Date

Total number of pages including cover sheet, attachments, and documents: 4

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

PATENT
REEL: 012522 FRAME: 0957

01/30/2002 EHAILE1 00000011 10055118
04 FC 561 40.00 DP

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned, **Xizeng Shi**, do sell, assign, and transfer to **Read-Rite Corporation**, a corporation with offices at 44100 Osgood Road, Fremont, California 94539 ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the non-provisional application for United States Letters Patent executed on 1-18-02 and naming as inventors Qiuqun Qi, Xizeng Shi, and Matthew R. Gibbons, entitled:

"Reference Cells for Magnetic Tunnel Junction (MTJ) MRAM"

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application; and

Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: 1-18-02Name: Xizeng Shi
Xizeng Shi

ASSIGNMENT

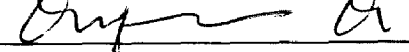
For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned, **Qiuqun Qi**, do sell, assign, and transfer to **Read-Rite Corporation**, a corporation with offices at 44100 Osgood Road, Fremont, California 94539 ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the non-provisional application for United States Letters Patent executed on 01/18/2002 and naming as inventors Qiuqun Qi, Xizeng Shi, and Matthew R. Gibbons, entitled:

"Reference Cells for Magnetic Tunnel Junction (MTJ) MRAM"

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application; and

Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: 01/18/2002Name: 
Qiuqun Qi

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned, **Matthew R. Gibbons**, do sell, assign, and transfer to **Read-Rite Corporation**, a corporation with offices at 44100 Osgood Road, Fremont, California 94539 ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the non-provisional application for United States Letters Patent executed on 1/18/2002 and naming as inventors Qiuqun Qi, Xizeng Shi, and Matthew R. Gibbons, entitled:

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Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: 1/18/2002Name: Matthew R. Gibbons
Matthew R. Gibbons