(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
7 March 2002 (07.03.2002)

PCT

(10) International Publication Number
WO 02/019336 A3

(51) International Patent Classification[7]: G11C 11/16

(21) International Application Number: PCT/US01/25864

(22) International Filing Date: 17 August 2001 (17.08.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/649,562 28 August 2000 (28.08.2000) US

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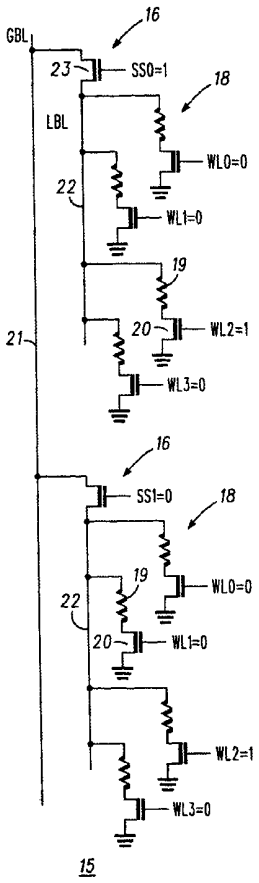
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(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,

[Continued on next page]

(54) Title: MTJ MRAM PARALLEL-PARALLEL ARCHITECTURE



(57) Abstract: Magnetic tunnel junction random access memory parallel-parallel architecture wherein an array of memory cells (18) is arranged in rows and columns (15) with each memory cell including a magnetic tunnel junction (19) and a control transistor (20) connected in series. The array of memory cells is constructed with a plurality of columns and each column includes a global bit line (21) coupled to a control circuit. Each column further includes a plurality of local bit lines coupled in parallel (22) to the global bit line and a plurality of groups (16, 17) of memory cells, with each group including a plurality of memory cells connected in parallel between the local bit line and a reference potential.

WO 02/019336 A3

CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:
11 July 2002

Published:

— *with international search report*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

II ERNATIONAL SEARCH REPORT

Inte...ational Application No
PCT/US 01/25864

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G11C11/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G11C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 00 08650 A (MOTOROLA INC) 17 February 2000 (2000-02-17) the whole document	1
A	US 5 917 745 A (FUJII YASUHIRO) 29 June 1999 (1999-06-29) column 4, line 50 -column 6, line 54	1

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
7 May 2002	16/05/2002

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Information on patent family members

Int...ational Application No
PCT/US 01/25864

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 0008650 A	17-02-2000	US	6111781 A	29-08-2000
		EP	1105879 A1	13-06-2001
		WO	0008650 A1	17-02-2000
		US	6278631 B1	21-08-2001
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