

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 April 2005 (14.04.2005)

PCT

(10) International Publication Number
WO 2005/034176 A2

- (51) International Patent Classification⁷: **H01L**
- (21) International Application Number:
PCT/US2004/027918
- (22) International Filing Date: 26 August 2004 (26.08.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
10/666,454 17 September 2003 (17.09.2003) US
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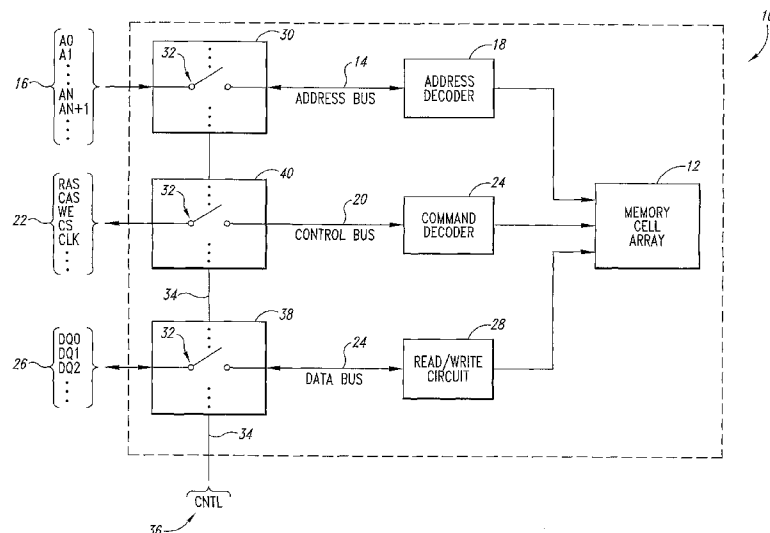
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

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.

(54) Title: APPARATUS AND METHOD FOR SELECTIVELY CONFIGURING A MEMORY DEVICE USING A BI-STABLE RELAY



(57) Abstract: The disclosed embodiments of the present invention include a semiconductor memory apparatus having a selectable memory capacity. In one embodiment, a system includes input, output, and data storage devices, a processor coupled to the devices, a memory device coupled to the processor, and a configuration circuit interposed between the processor and the memory device to selectively couple lines in the address, control and data busses of the processor to lines in the address, control and data busses of the memory device. In another embodiment, a memory device includes an array coupleable to one or more busses of an external device and a configuration circuit between the array and the busses of the external device to selectively couple the busses to the memory cell array. In a particular embodiment, the configuration circuit includes one or more bi-stable relays, such as Micro-Electrical-Mechanical System (MEMS) relays.

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