Title (en)

CALL OUT MEMORY WITH REDUCED SURFACE

Title (de)

SPEICHER MIT AUSRUFFUNKTION MIT REDUZIERTER OBERFLÄCHE

Title (fr)

MEMOIRE A FONCTION D'APPEL, DE SURFACE REDUITE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO0201570A1] A memory system and method that enables locating memory cells that contain a searched data using a limited number of lines and thus reducing the necessary memory surface while at the same time accelerating the search process by limiting the search to cells having a predefined characteristic. The memory system comprises an address bus and a data bus, a row selector and a column selector and a two dimensional array of memory cells, each memory cell comprising a masking circuit, a comparator circuit, a memory bit for storing the comparison results and in some embodiments the cell also comprises a range circuit. The memory may be operated in a read and write mode or it may be operated in a novel, fast search mode.

IPC 1-7

G11C 15/04; G11C 15/00

IPC 8 full level

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