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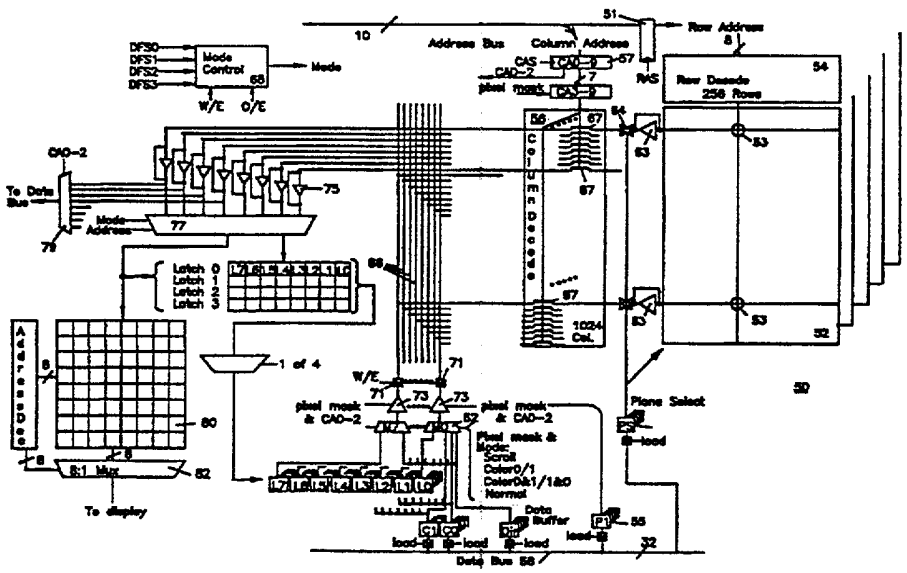
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(54) Title: FRAME BUFFER SYSTEM DESIGNED FOR WINDOWING OPERATIONS



(57) Abstract

A frame buffer (17) designed to be coupled to a data bus (12) and to an output display (18) in a computer system (fig. 1), the frame buffer (fig. 3) including an array of memory cells (52) for storing data indicating pixels to be displayed on the output display, address decoding apparatus (54 and 56) for controlling access to the array, the address decoding apparatus including column address decoding apparatus (56) for selecting groups of adjacent columns of the array, a plurality of apparatus for selectively writing to each of the columns of any of said groups of adjacent columns, a plurality of color value registers (C0 and C1), latching apparatus (57) for storing pixel data equivalent to a row of pixel data to be displayed on the output display, apparatus for writing pixel data from selected groups of adjacent columns of the array to the latching apparatus, and apparatus (58) for connecting either selected ones of the color value registers, the latches, or the data bus to the apparatus for selectively writing to each of the columns of any of said groups of adjacent columns.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US94/12307

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) :G06F 12/06
US CL :395/166,

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)

U.S. : 395/162-166, 425; 345/185-187, 191, 196, 203; 365/189.01, 189.02, 189.04, 189.12, 230.02, 230.03, 230.05, 230.06, 230.08.

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

none

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

APS: pixel data; array(3w)memory(w)cell#; color register#; latch?; frame buffer.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US, A, 5,046,023 (Katsura et al) 03 September 1991, Figures 1-4, 13	1, 4-7, 10-13, 16-20
Y	US, A, 4,648,077 (Pinkham et al) 03 March 1987, Figures 1, 10, 12, 14, 16.	1, 4-7, 10-13, 16-20.
Y	US, A, 4,823,302 (Christopher) 18 April 1989, figure 1, column 1, lines 7-12.	1, 4-7, 10-13, 16-20.

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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