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Dodge et al.

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[54] **APPARATUS FOR PRESENTING IMAGE INFORMATION FOR DISPLAY GRAPHICALLY**

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[52] **U.S. Cl.** **340/721**; 340/703; 340/747; 340/801

[58] **Field of Search** 340/703, 721, 729, 747, 340/789, 798, 801

[56] **References Cited**

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[57] **ABSTRACT**

Pixel information for a graphics display apparatus is stored in a bit map memory which may be considered as grouped into a number of bit planes corresponding to different separable surfaces or color patterns to be displayed by the apparatus. Information from a computer data bus is written into the proper surface by shifting a predetermined number of bit positions and write protecting information in the bit map memory representing surfaces other than the one it is desired to change.

6 Claims, 9 Drawing Figures