



US005263134A

# United States Patent [19]

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Paal et al.

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[54] **METHOD AND APPARATUS FOR CONTROLLING COMPUTER DISPLAYS BY USING A TWO DIMENSIONAL SCROLL PALETTE**

[75] Inventors: **Adam F. Paal, Stanford; William J. Fernandez, Fremont, both of Calif.**

[73] Assignee: **Apple Computer, Inc., Cupertino, Calif.**

[21] Appl. No.: **922,644**

[22] Filed: **Jul. 30, 1992**

### Related U.S. Application Data

[63] Continuation of Ser. No. 426,872, Oct. 25, 1989, abandoned.

[51] Int. Cl.<sup>5</sup> ..... **G06F 3/14**

[52] U.S. Cl. .... **395/158; 395/157; 395/155**

[58] Field of Search ..... **395/155, 156, 157, 158, 395/706, 721, 724, 747, 750**

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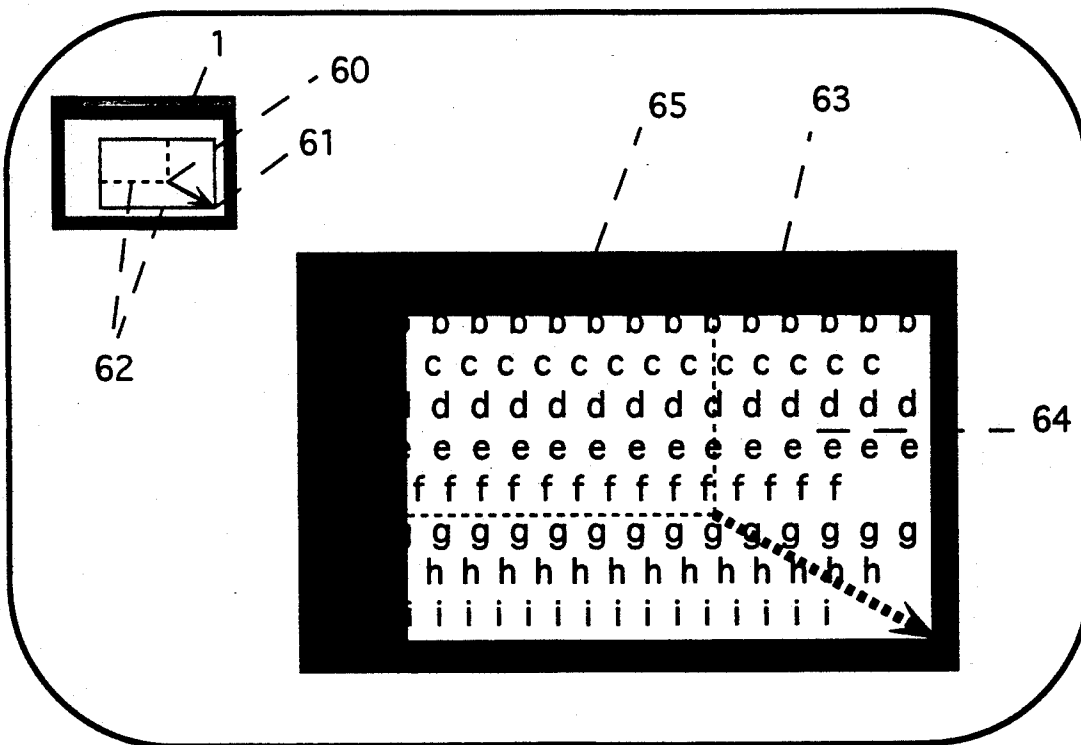
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### [57] ABSTRACT

A computer program provides for the display of window regions on a display screen whereby the content and size of one window region is controllable in two dimensions using means provided in another window region. A cursor device and a signal generation means is used to select the two-dimensional scrolling or resizing of a window region. Controls are also provided to move and terminate window regions. Upon termination, the configuration of window regions is saved on a data storage means for use when the window regions are re-displayed. Cursor movement can be restricted to the horizontal or vertical directions only.

**48 Claims, 9 Drawing Sheets**





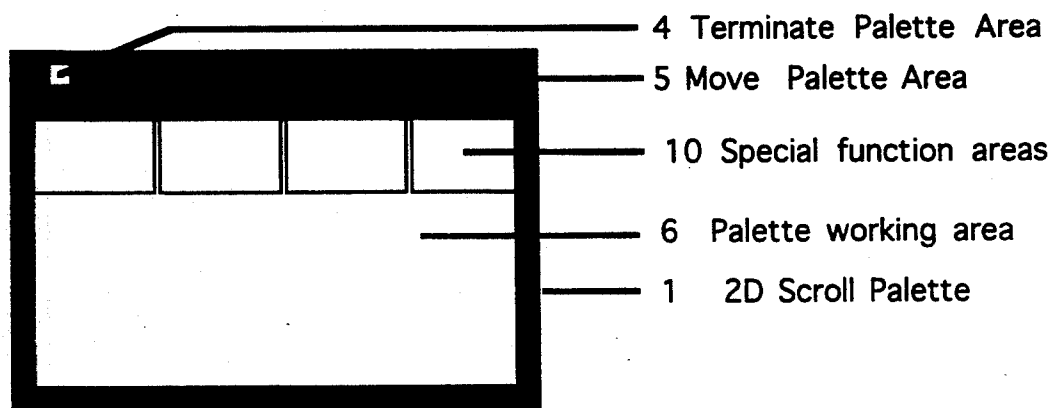


Figure 3

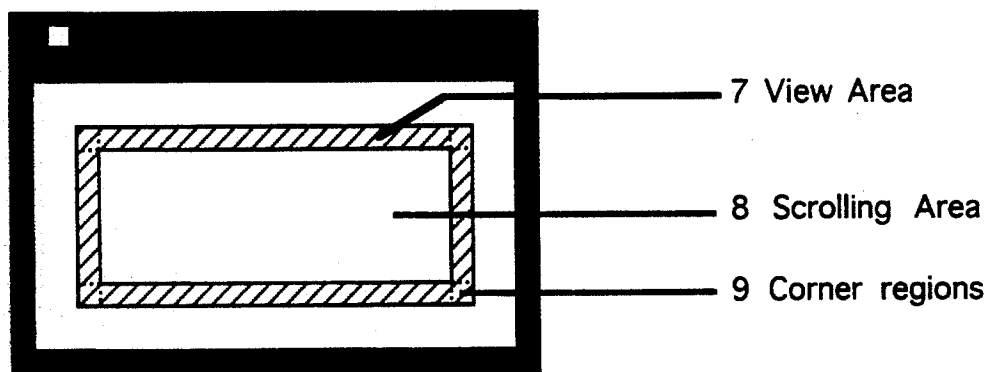


Figure 4

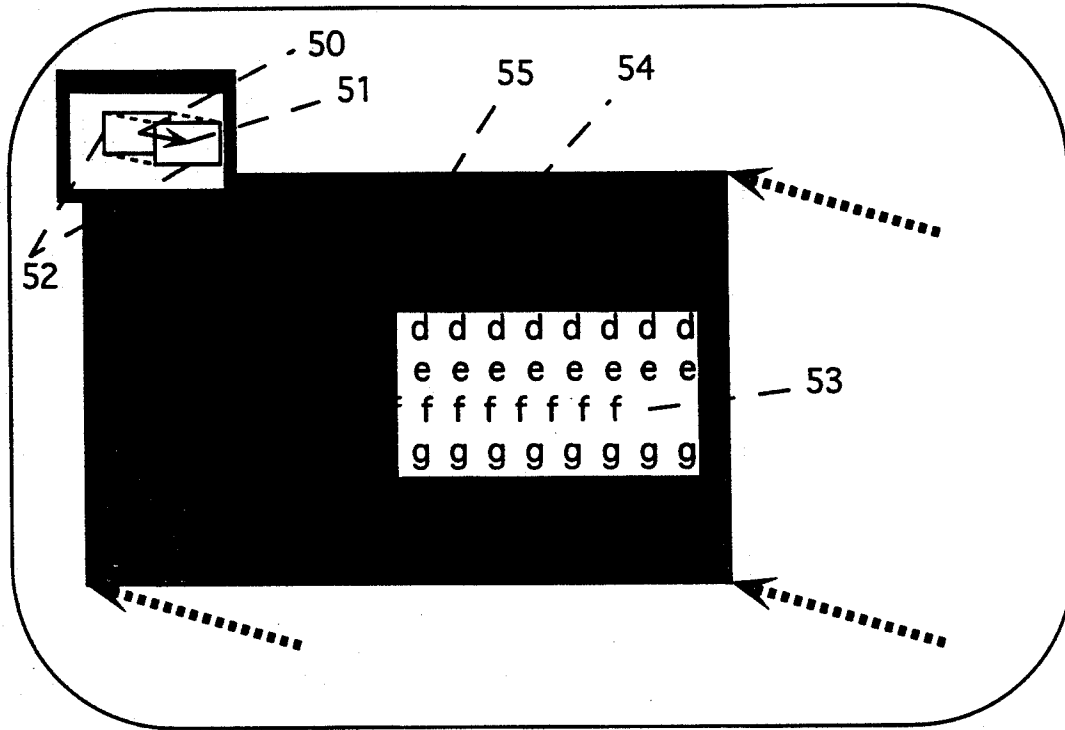


Figure 5

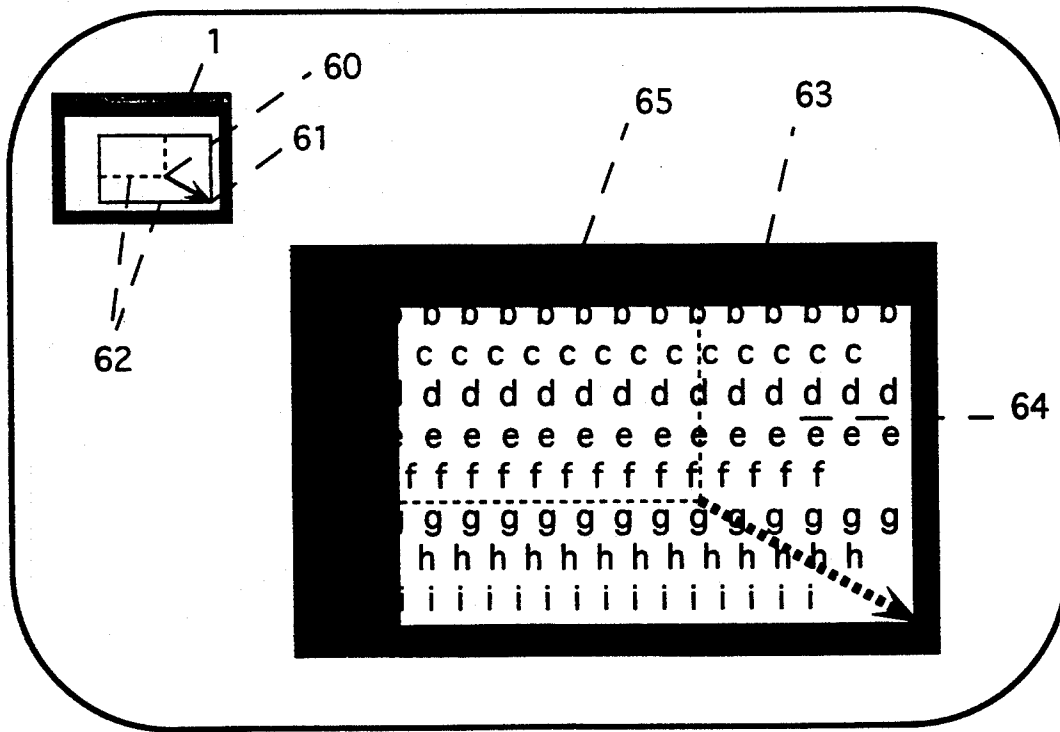
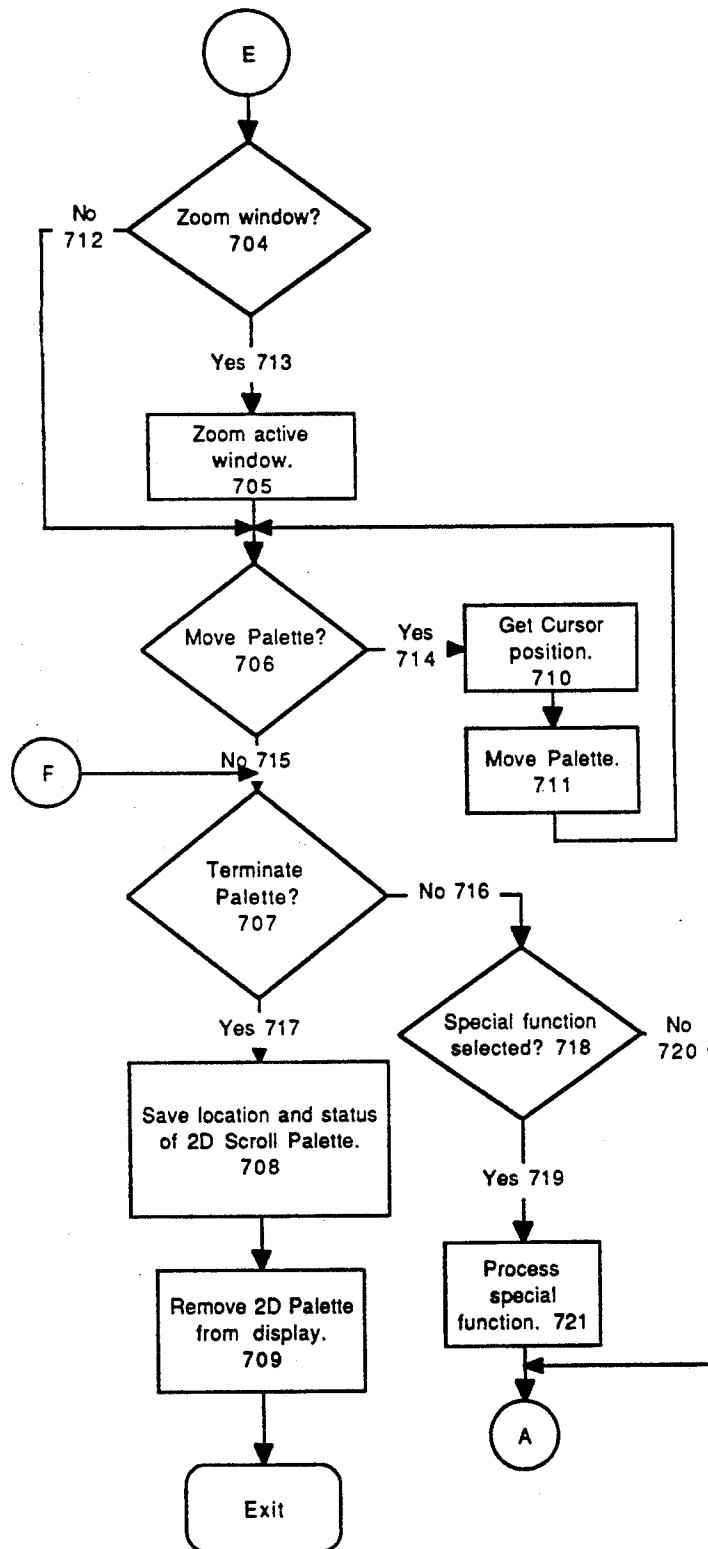
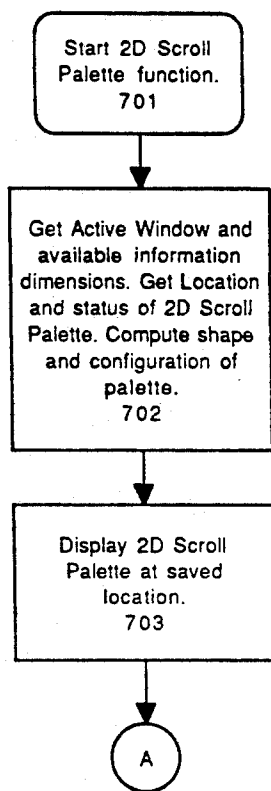


Figure 6

Figure 7



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