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# United States Patent [19]

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**Kurtenbach**

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[54] **METHODS AND SYSTEM OF CONTROLLING MENUS WITH RADIAL AND LINEAR PORTIONS**

[75] Inventor: **Gordon P. Kurtenbach**, Toronto, Canada

[73] Assignee: **Silicon Graphics, Inc.**, Mountain View, Calif.

[21] Appl. No.: **469,913**

[22] Filed: **Jun. 6, 1995**

[51] Int. Cl.<sup>6</sup> ..... **G06F 3/00**

[52] U.S. Cl. .... **395/352; 395/353; 395/358; 345/146**

[58] Field of Search ..... **395/155-161, 395/326-358; 345/117-120, 146, 902**

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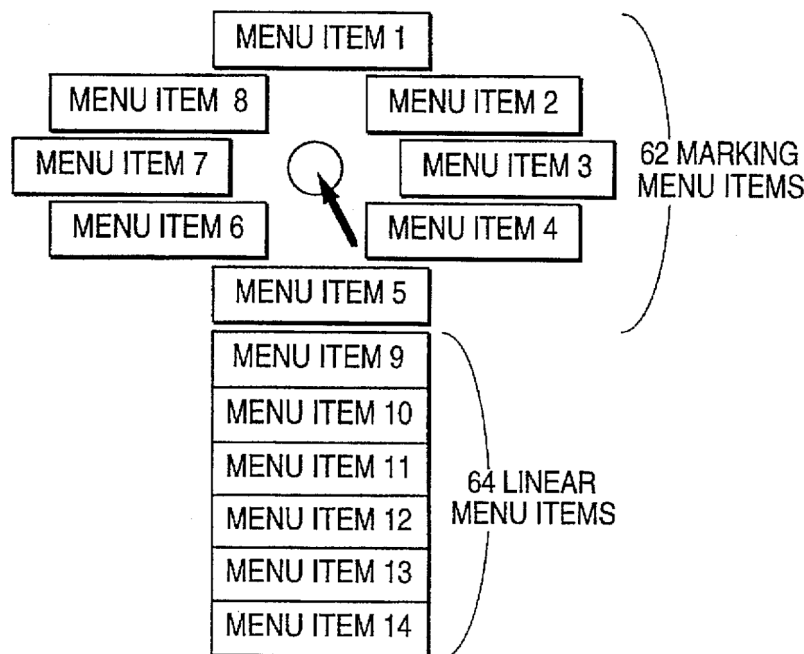
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*Primary Examiner*—John E. Breene

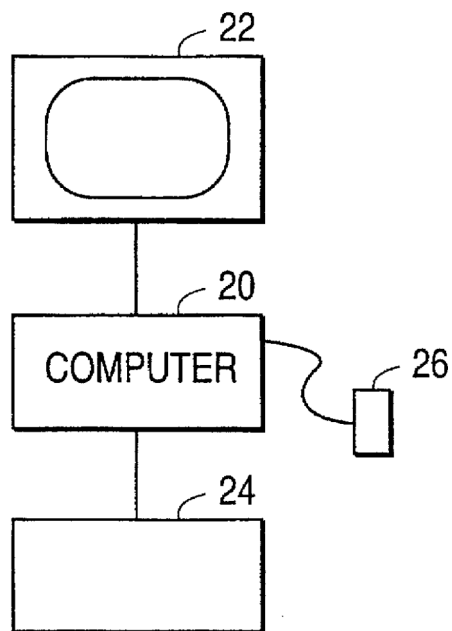
[57] **ABSTRACT**

A system that combines a radial marking menu portion with a linear menu portion in a single menu display. Item selection in the linear portion is performed by location selection using a pointing device. Item selection in the marker portion is determined by the pattern of a stroke made by the pointing device with the system ignoring linear menu items across which the stroke completely passes.

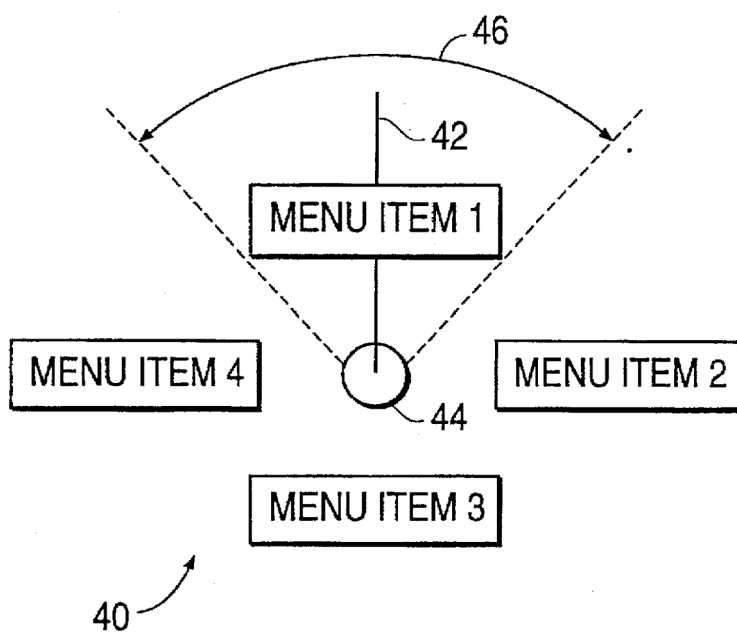
**4 Claims, 9 Drawing Sheets**



**FIG. 1**



**FIG. 3**



**FIG. 2**

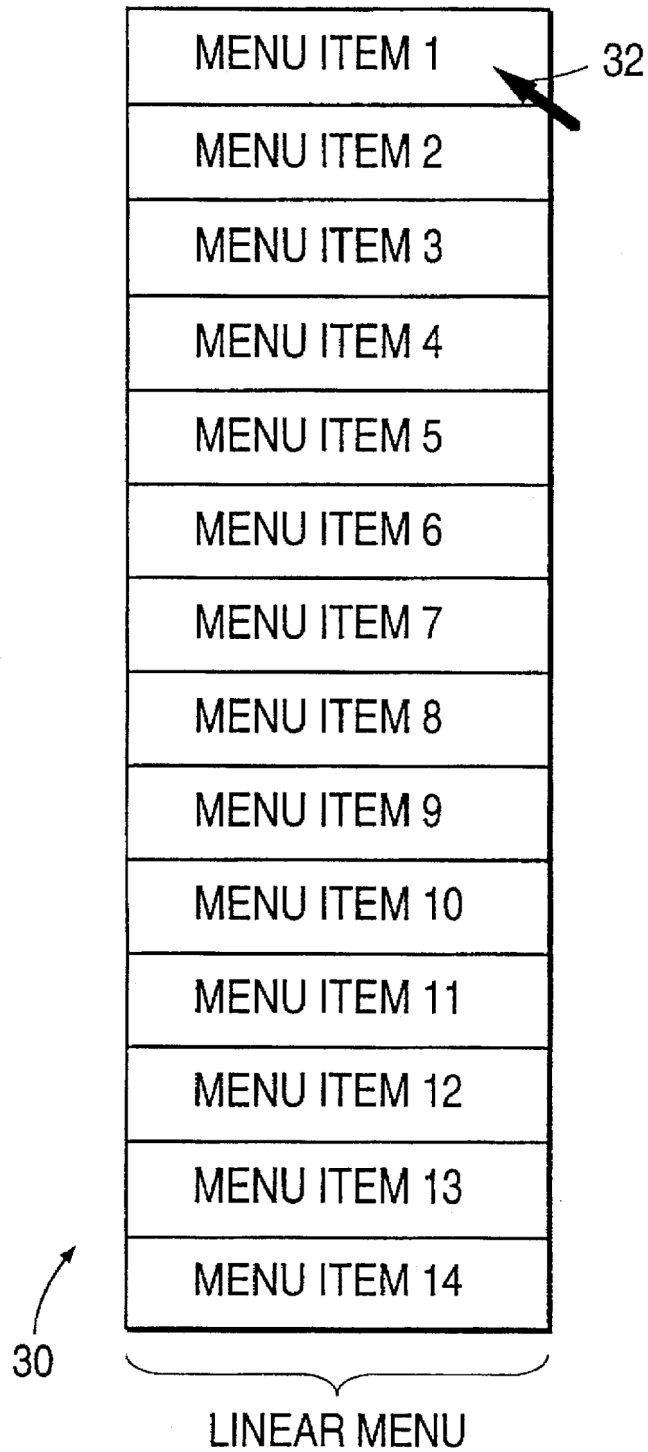


FIG. 4

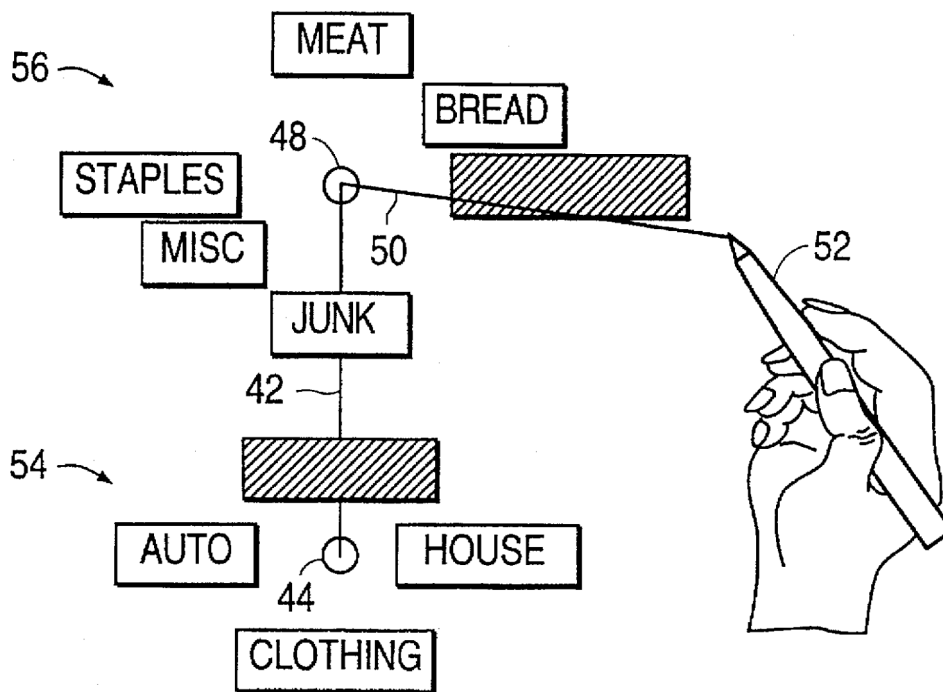


FIG. 5

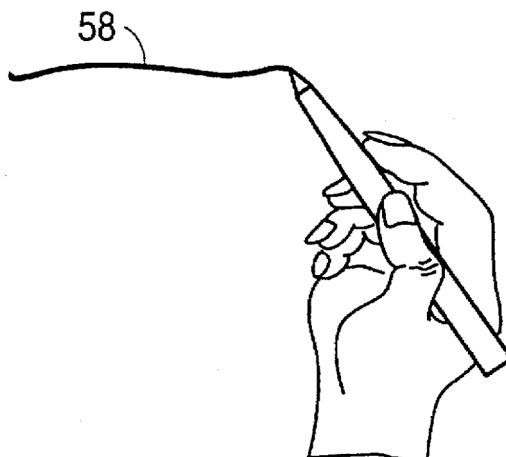
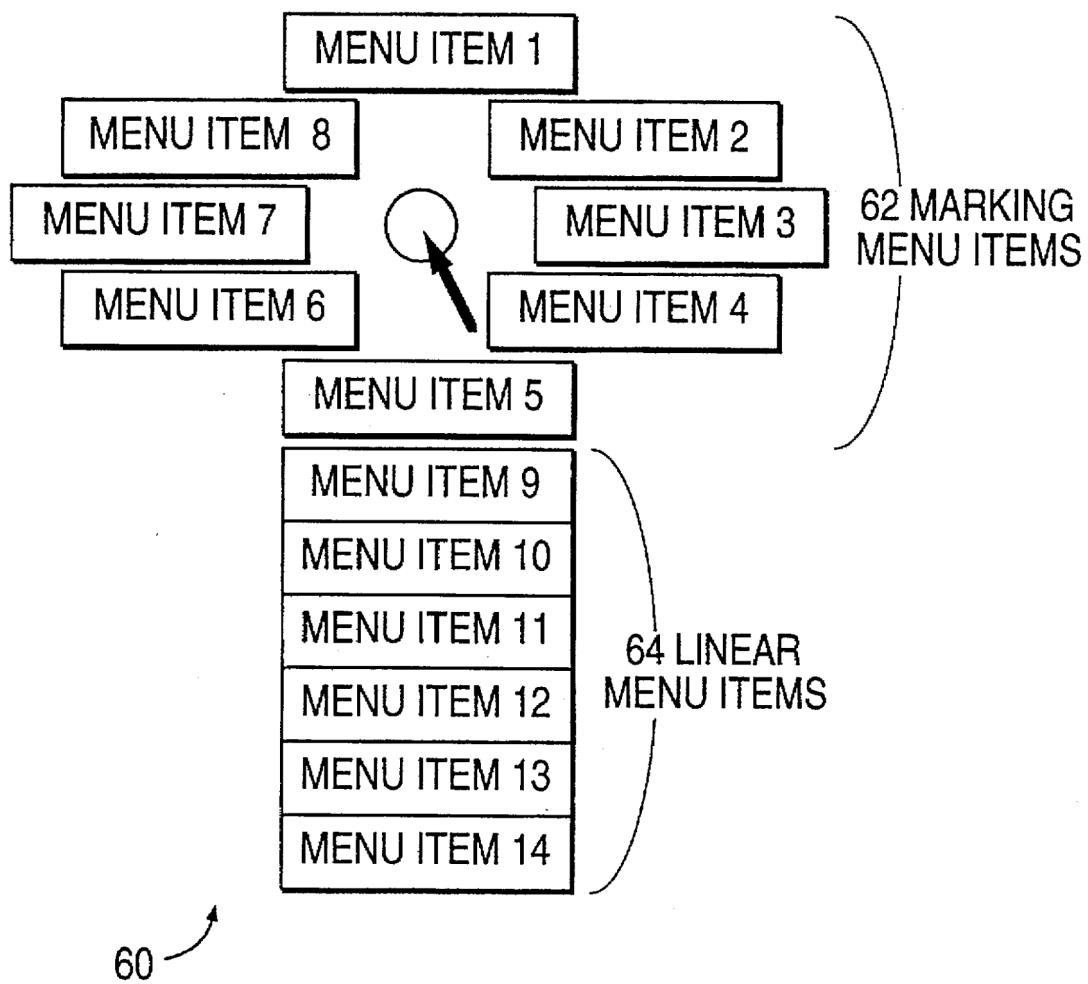


FIG. 6



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