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Bergsten et al.

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(54) **METHOD AND APPARATUS FOR
SCROLLABLE CROSS-POINT NAVIGATION
IN A USER INTERFACE**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 591 days.

This patent is subject to a terminal disclaimer.

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G06F 9/00 (2006.01)

(52) **U.S. Cl.** **715/853**; 715/763; 715/725;
715/841; 715/843

(58) **Field of Classification Search** 713/719-722;
345/853, 763, 725, 841-843; 725/44, 45,
725/46, 47, 52, 61

See application file for complete search history.

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Primary Examiner—Kristine Kincaid

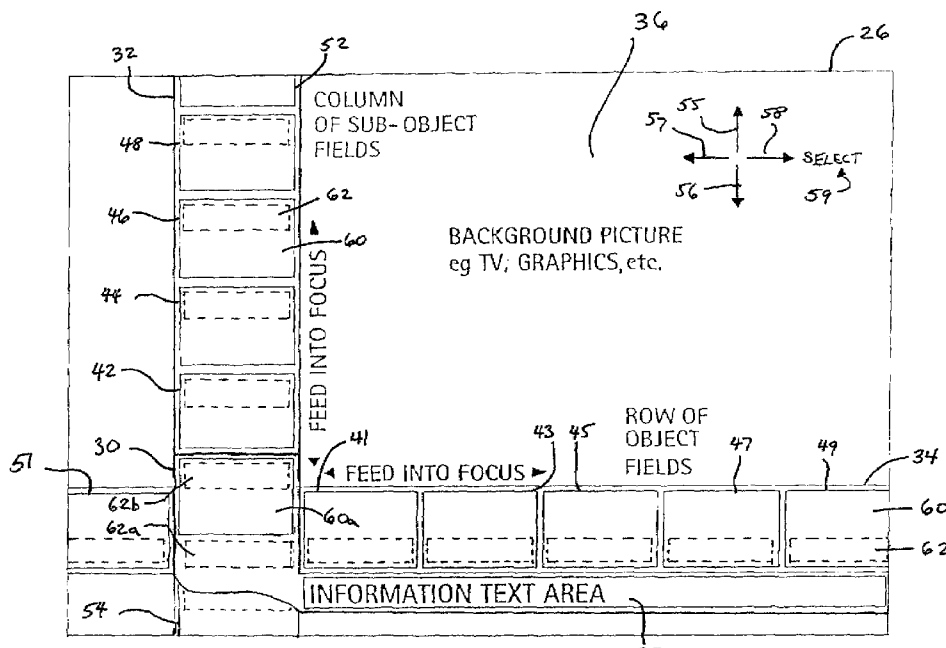
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(57) **ABSTRACT**

Method and apparatus for controlling an electronic device by navigating through a hierarchy of groups of commands while continuously providing the current location and path in the hierarchical structure. A displayed scrollable cross-point navigation image has two bars, each containing panels corresponding to a separate folder, etc. At the intersection of the bars is displayed the current lowest level and the next upper level, if any. The next higher level is shown in an adjoining panel on a first bar, the next higher level in a next adjoining panel on that bar, until there are no further higher levels to display, at which point the remaining upper-most level folders are displayed. The second bar displays sub-folders or settings within the folder in the focus panel. Moving in the folder hierarchy causes the panels in the first bar to shift to display all intervening levels through the top level.

20 Claims, 9 Drawing Sheets



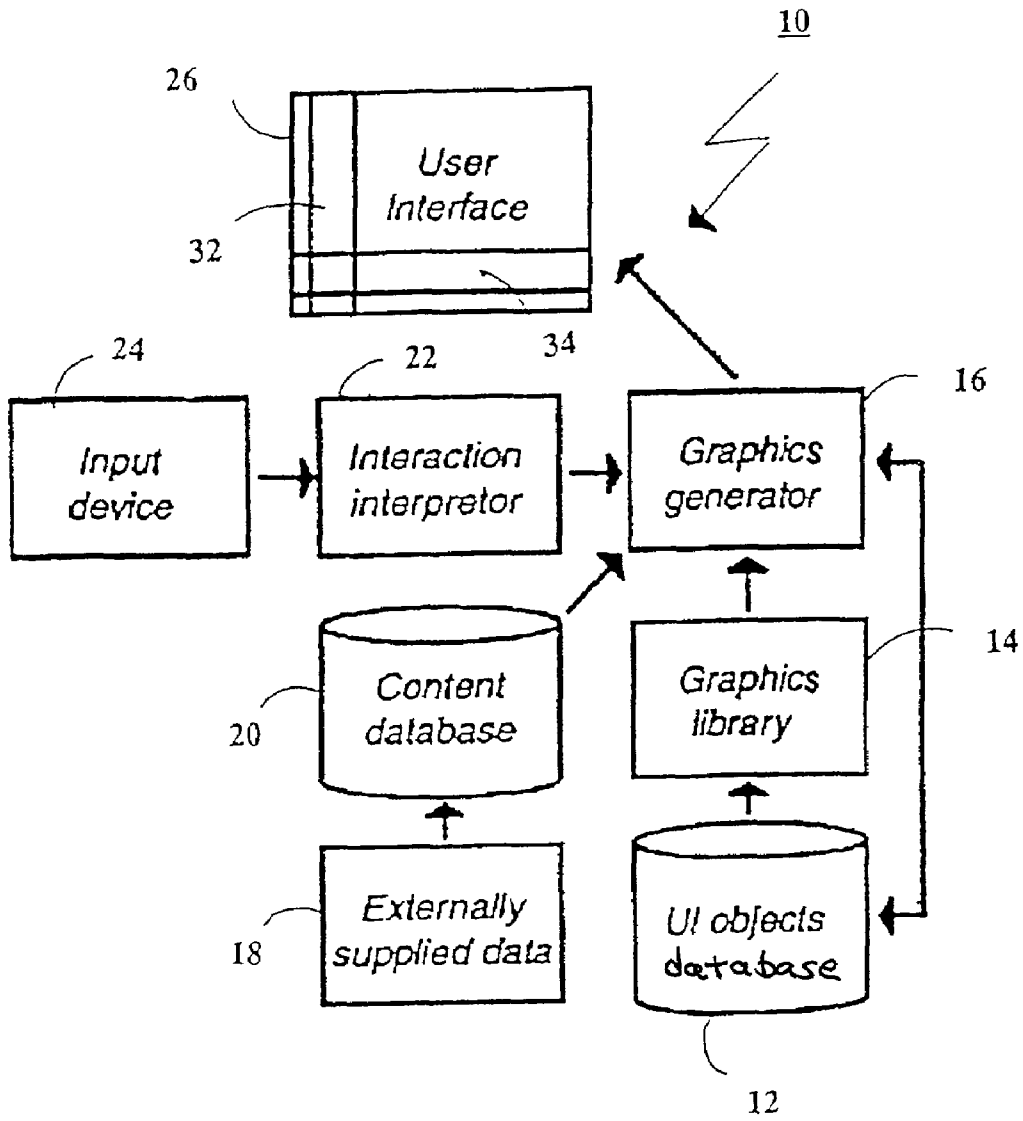
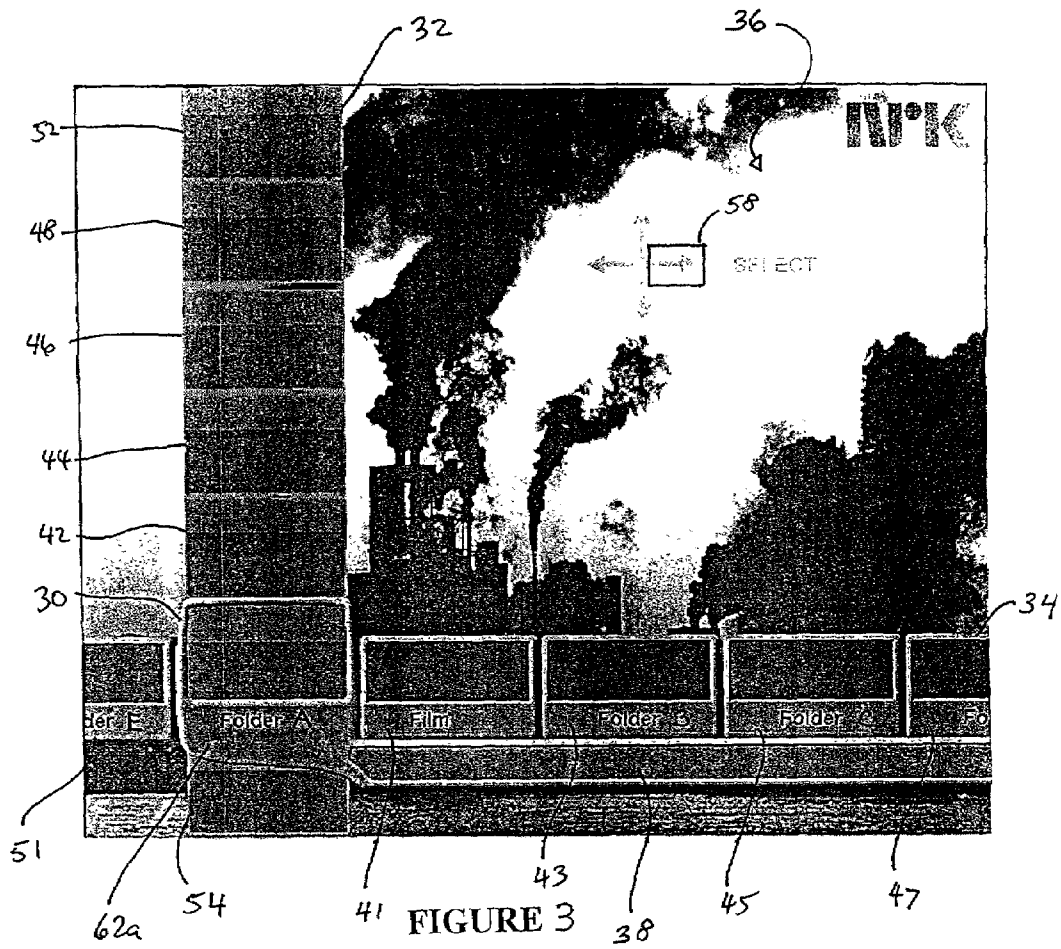


FIGURE 1



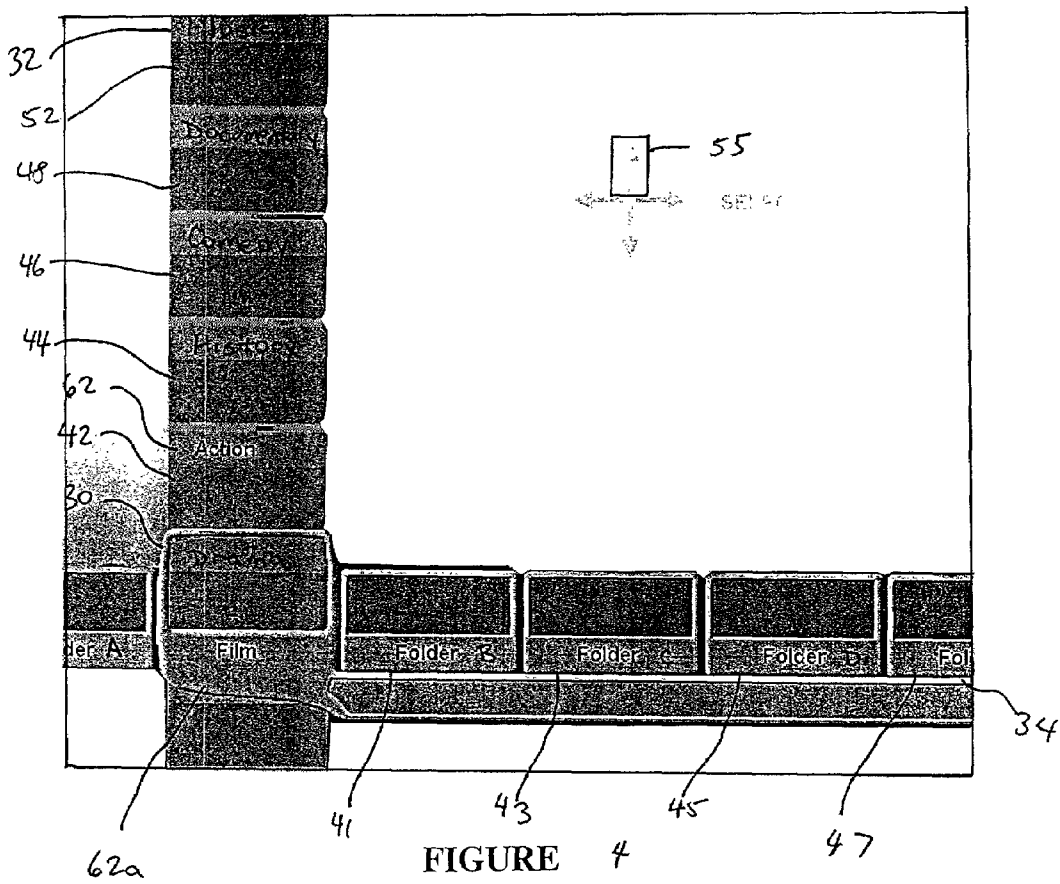


FIGURE 4

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