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(12) United States Patent Proehl et al.

(54) MODAL DISPLAY, SMOOTH SCROLL **GRAPHIC USER INTERFACE AND REMOTE COMMAND DEVICE SUITABLE FOR EFFICIENT NAVIGATION AND SELECTION OF DYNAMIC DATA/OPTIONS PRESENTED** WITHIN AN AUDIO/VISUAL SYSTEM

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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 411 days.
- (21) Appl. No.: 09/615,871

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- Int. Cl.⁷ G09G 5/00 (51)
- (52) (58) Field of Search 345/719–722,

345/853-855, 727-729, 830, 841-843, 810; 725/37-61

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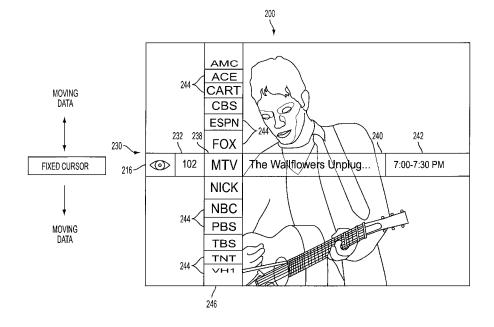
Assistant Examiner-Le V Nguyen

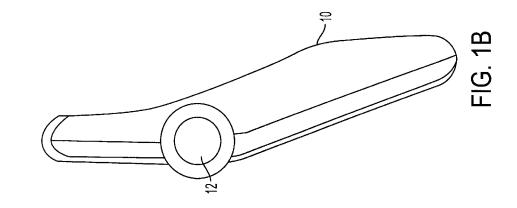
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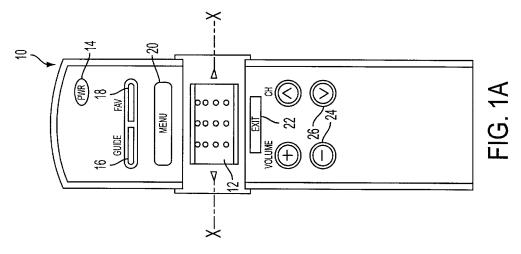
(57)ABSTRACT

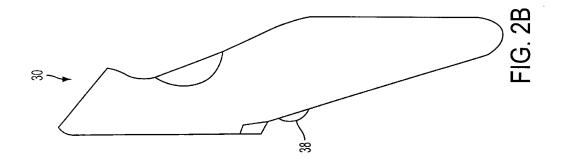
The efficient and intuitive presentation, navigation, and selection of AV information in a graphical user interface (GUI) displayed on a display apparatus of an AV system. Related AV information is organized as items within lists that correspond to various navigable fields of a status bar of the GUI during the GUI interactive mode. A highlighted navigable field of the status bar displays its list of related AV information and the items of the list are scrolled through the navigable field by a user causing a scrolling cylinder of a navigation and selection device to move in a scroll. A different field of the status bar may be selected by the user moving the scrolling cylinder in a lateral movement. Activation of the selection mechanism of the navigation and selection device will cause an AV device to be controlled in accordance with the currently displayed AV options.

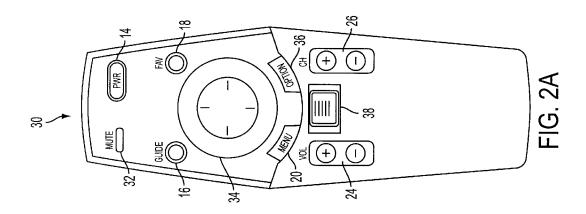
28 Claims, 19 Drawing Sheets

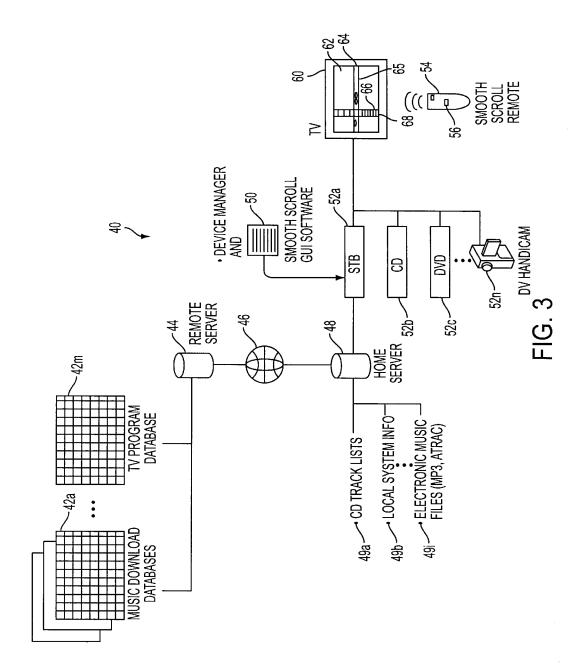


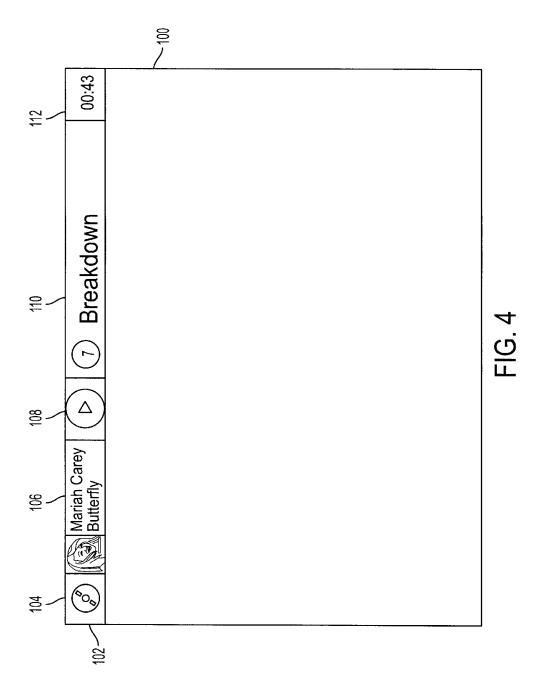












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