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Arcuri et al.

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[54] ADAPTIVE MENUS

Steve Harris, et al. "Inside WordPerfect 6 for Windows", New Riders Publishing, p. 1063, 1994.

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Microsoft® Works Reference, Appendix E: Macros, ©Copyright Microsoft Corporation 1987, 1988, 1989, pp. 369-382.

[73] Assignee: **Microsoft Corporation**, Redmond, Wash.

Microsoft Word User's Guide, Version 5.0, ©Copyright 1991-1992 Microsoft Corporation, pp. 61-66.

[21] Appl. No.: **09/098,403**

Primary Examiner—Raymond J. Bayerl

[22] Filed: **Jun. 17, 1998**

Assistant Examiner—Tadesse Hailu

[51] Int. Cl.⁷ **G06F 13/00**

Attorney, Agent, or Firm—Jones & Askew, LLP

[52] U.S. Cl. **345/352; 345/348; 345/333**

[58] Field of Search **345/352, 146, 345/343, 333, 335, 334**

[57] ABSTRACT

Drop down menus provided by a computer program are provided in two states, a short menu state and a long menu state. When a user opens a desired menu, the menu opened will initially take the form of a short menu of executable commands which are a subset of the total number of executable commands available under the selected menu. The short menu may be dynamically expanded into a long menu which will contain the complete set of executable commands available under the selected menu. The short menu may be adapted to the personal needs of the user when the user selects commands from the long menu which are not contained in the short menu. Usage information is stored and updated on the usage of each menu command added to a short menu. Menu commands are removed from the adapted short menus based on non-use of those menu commands by the user. Information stored, maintained, and updated on the usage of the menu commands added to the short menus is stored in a compact and efficient data structure which facilitates efficient computer memory use.

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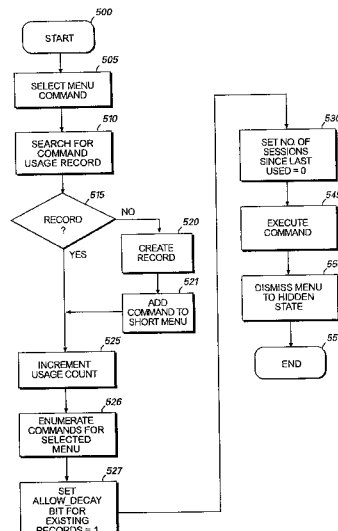
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30 Claims, 7 Drawing Sheets



Apple Exhibit 1036

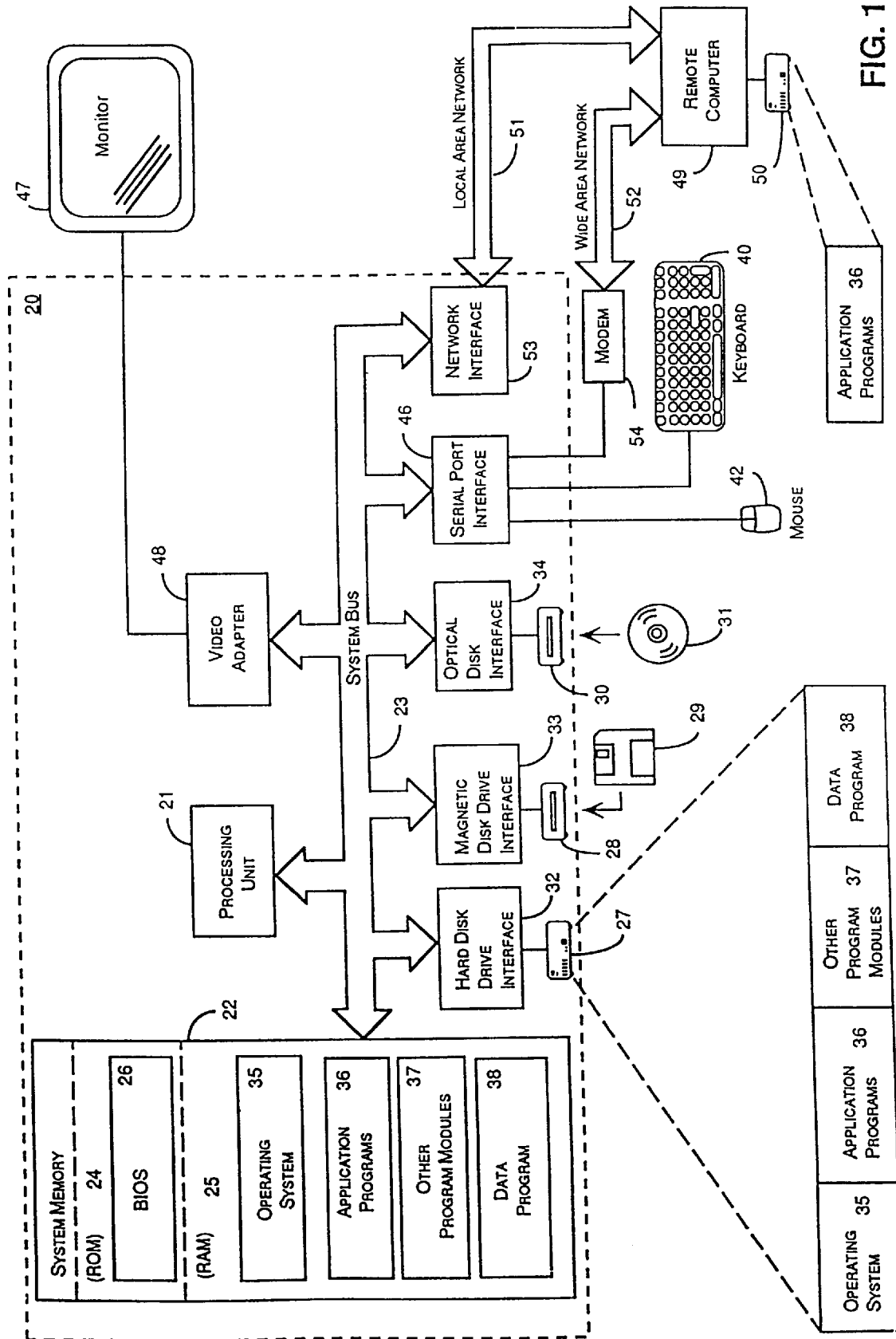


FIG. 1

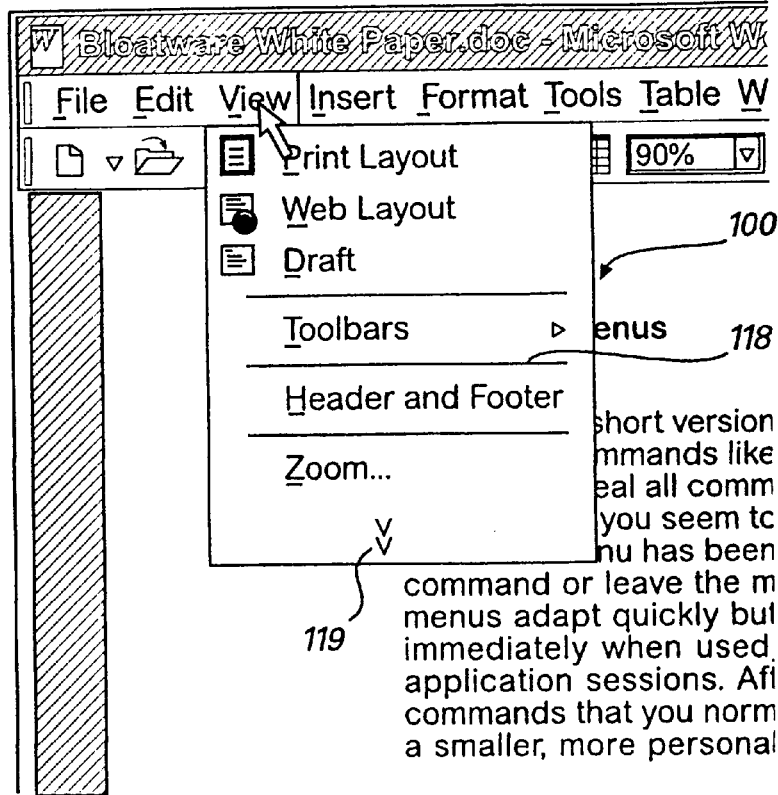


FIG.2A

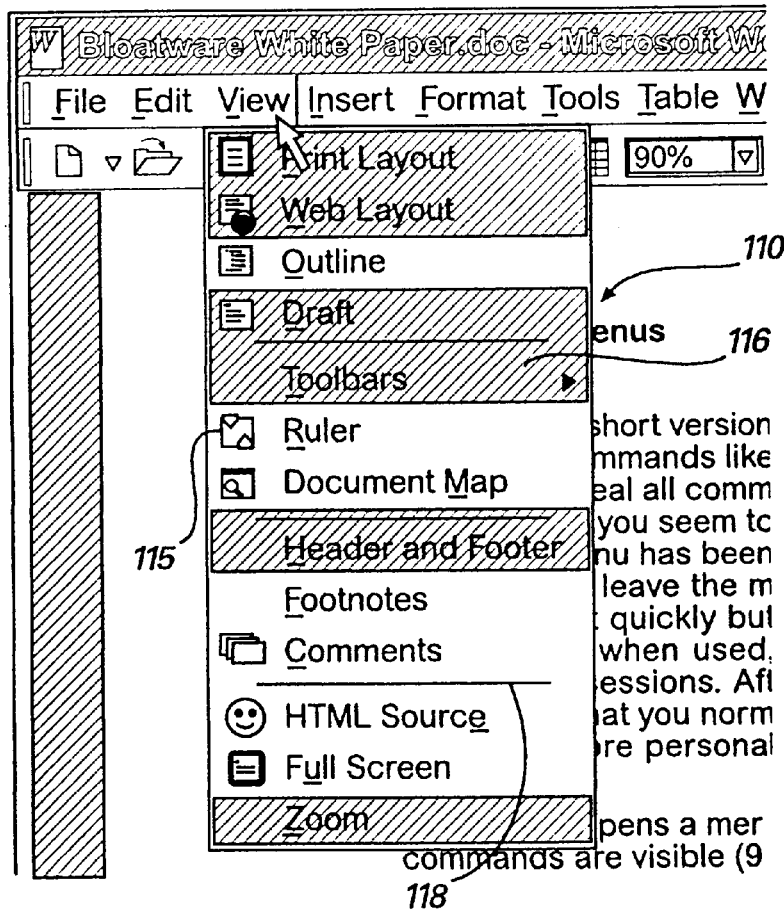


FIG.2B

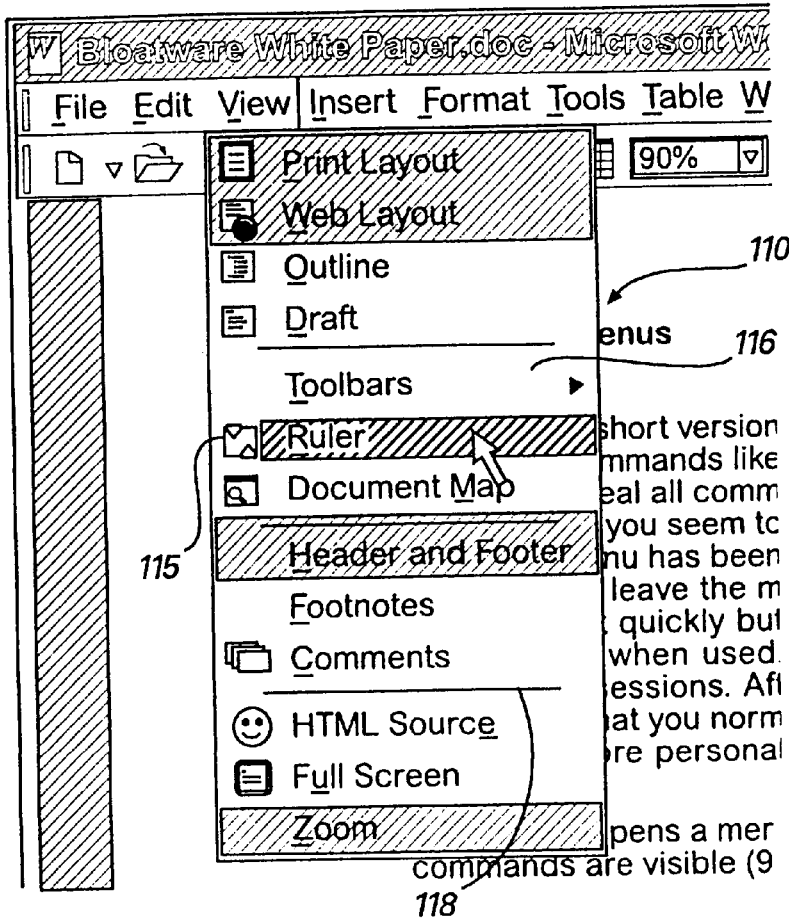


FIG.2C

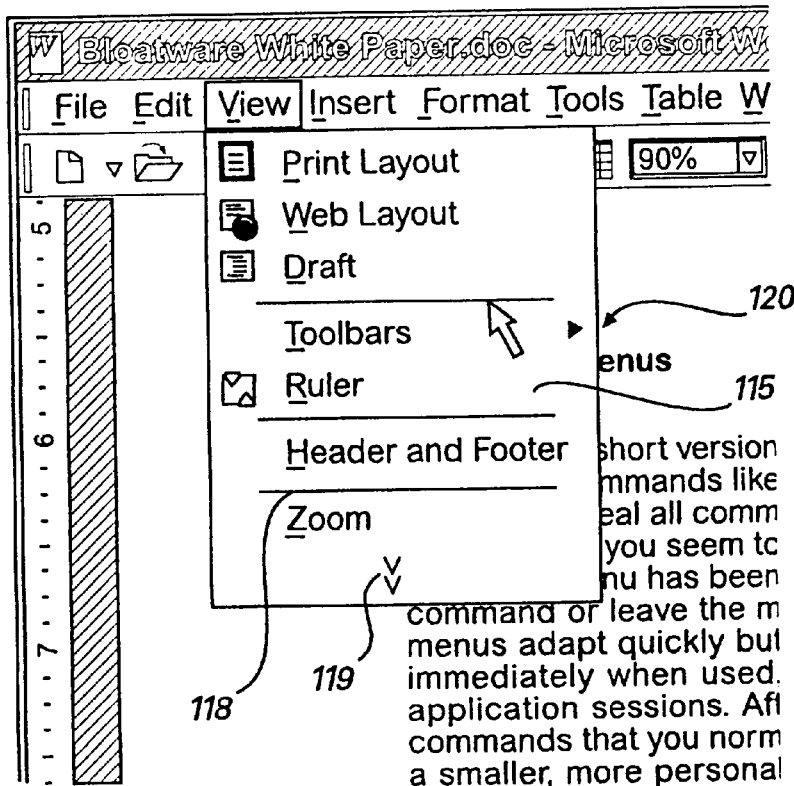


FIG.2D

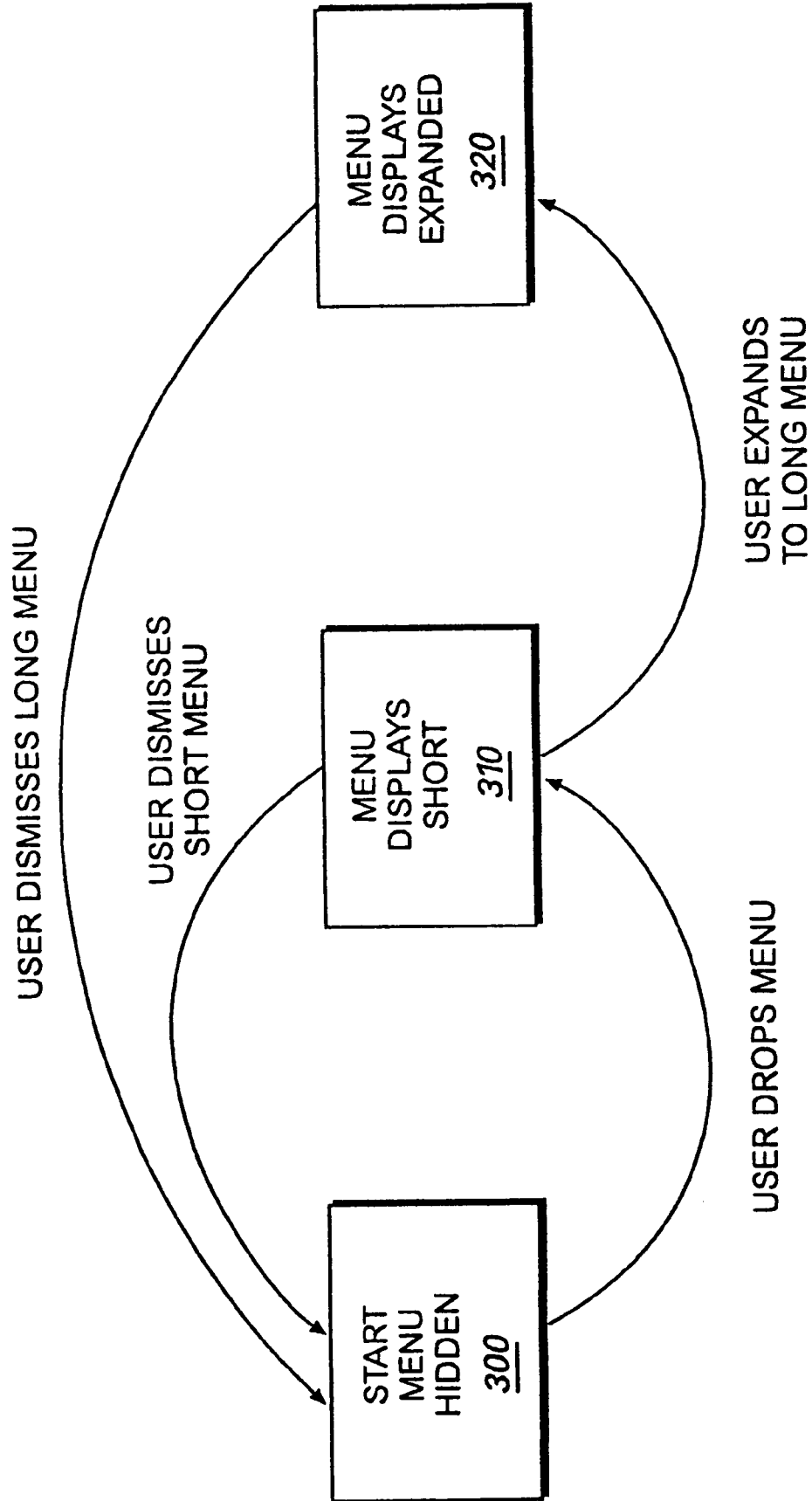


FIG.3

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