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(12) **United States Patent**
Narayanaswami

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(45) **Date of Patent:** Apr. 29, 2003

(54) **BEZEL BASED INPUT MECHANISM AND USER INTERFACE FOR A SMART WATCH**

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(75) Inventor: **Chandrasekhar Narayanaswami,**
Wilton, CT (US)

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(73) Assignee: **International Business Machines Corporation,** Armonk, NY (US)

“The World’s Smallest PDA Computer Watch”, Hammacher Schlemmer Mid Summer 2000 Catalog, p. 3.

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 425 days.

* cited by examiner

(21) Appl. No.: **09/607,594**

Primary Examiner—Kristine Kincaid
Assistant Examiner—Peng Ke

(22) Filed: **Jun. 30, 2000**

(74) *Attorney, Agent, or Firm*—Scully, Scott, Murphy & Presser; Gail H. Zarick, Esq.

(51) **Int. Cl.**⁷ **G09G 5/00; G04C 17/00**

(57) **ABSTRACT**

(52) **U.S. Cl.** **345/786; 345/701; 368/69; 368/295**

A wearable mobile computing device/appliance (e.g., a wrist watch) with a high resolution display that is capable of wirelessly accessing information from the network and a variety of other devices. The mobile computing device/appliance includes a user interface employing a bezel-based input mechanism including a bezel ring which may be rotated and depressed for generating both rotation and wheel click events for enabling navigation, selection and entry of various displayed textual and graphical items.

(58) **Field of Search** 345/786, 787, 345/828, 829, 830, 701, 700, 704, 810, 835, 839, 832, 853, 854, 964, 173, 174; 368/251, 244, 246, 248, 243, 10, 109, 247, 250, 262, 263, 267, 69, 295

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42 Claims, 5 Drawing Sheets

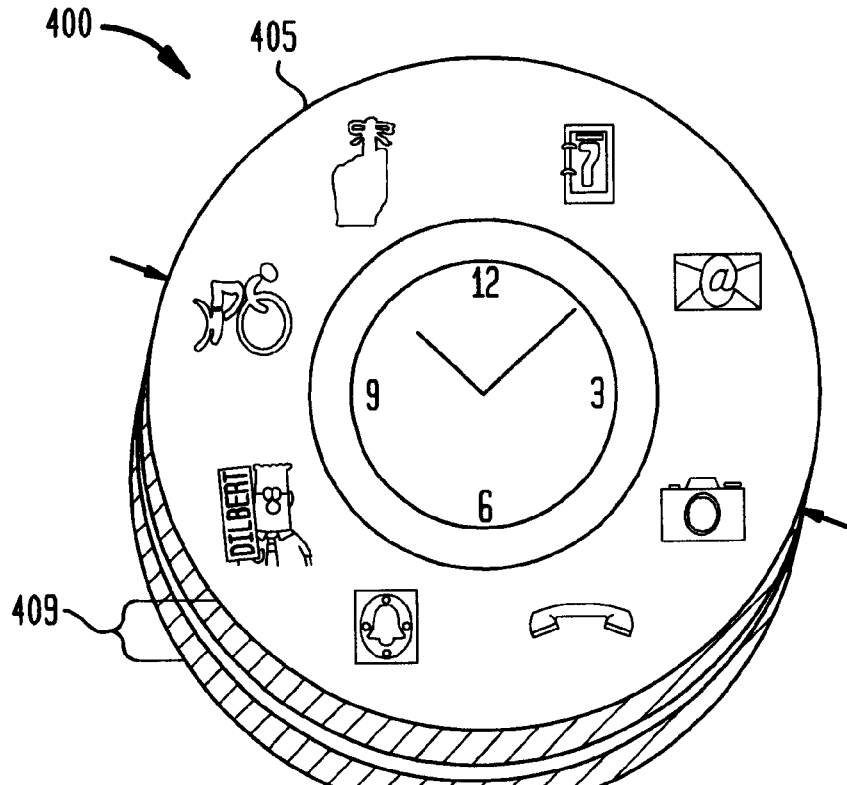


FIG. 1

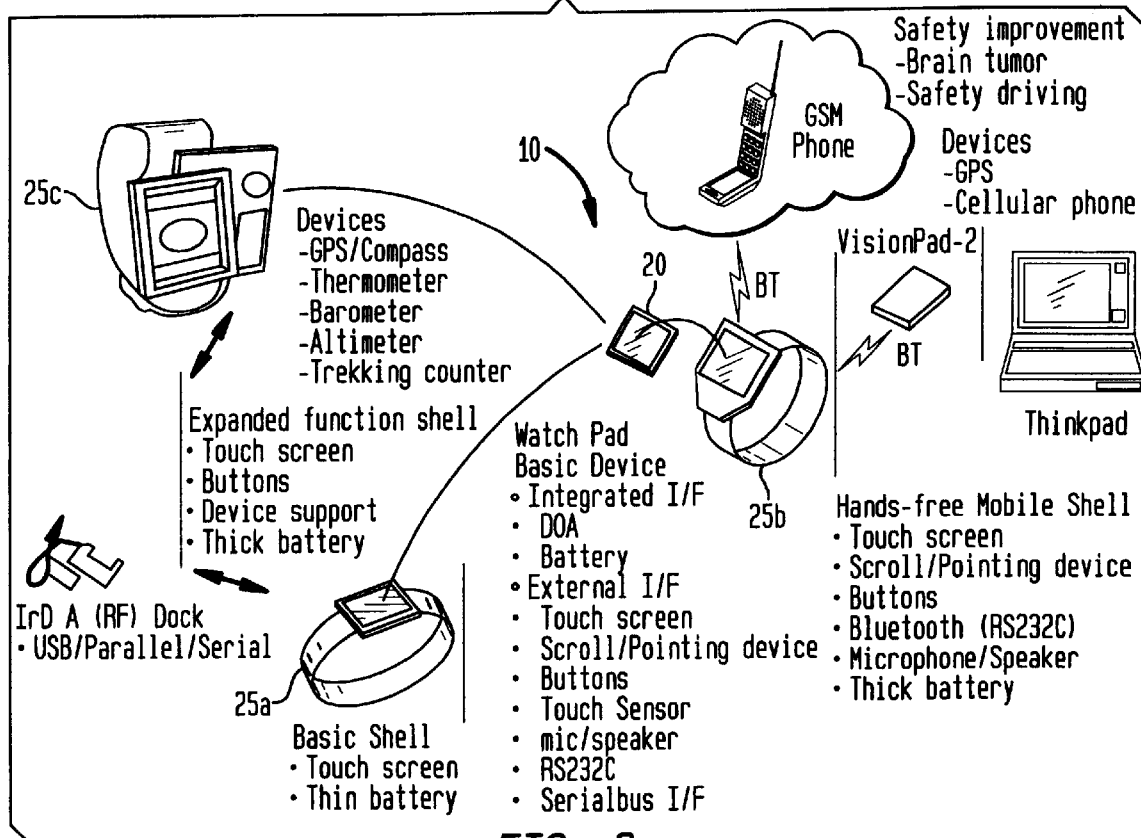


FIG. 3

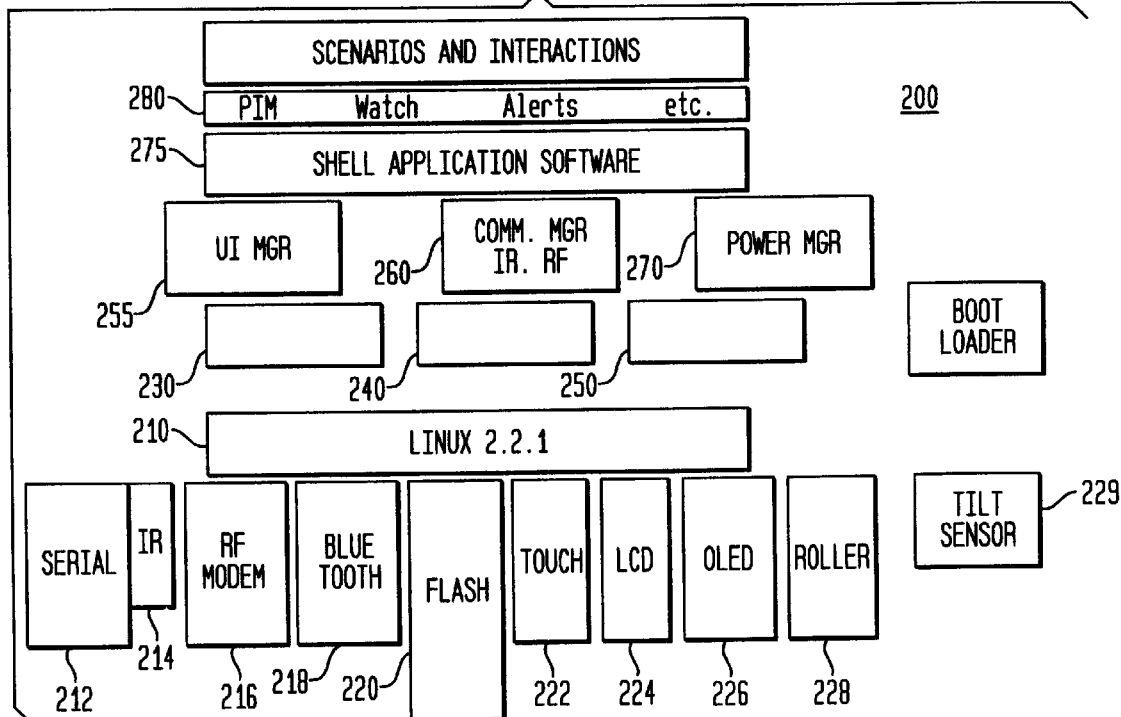


FIG. 2

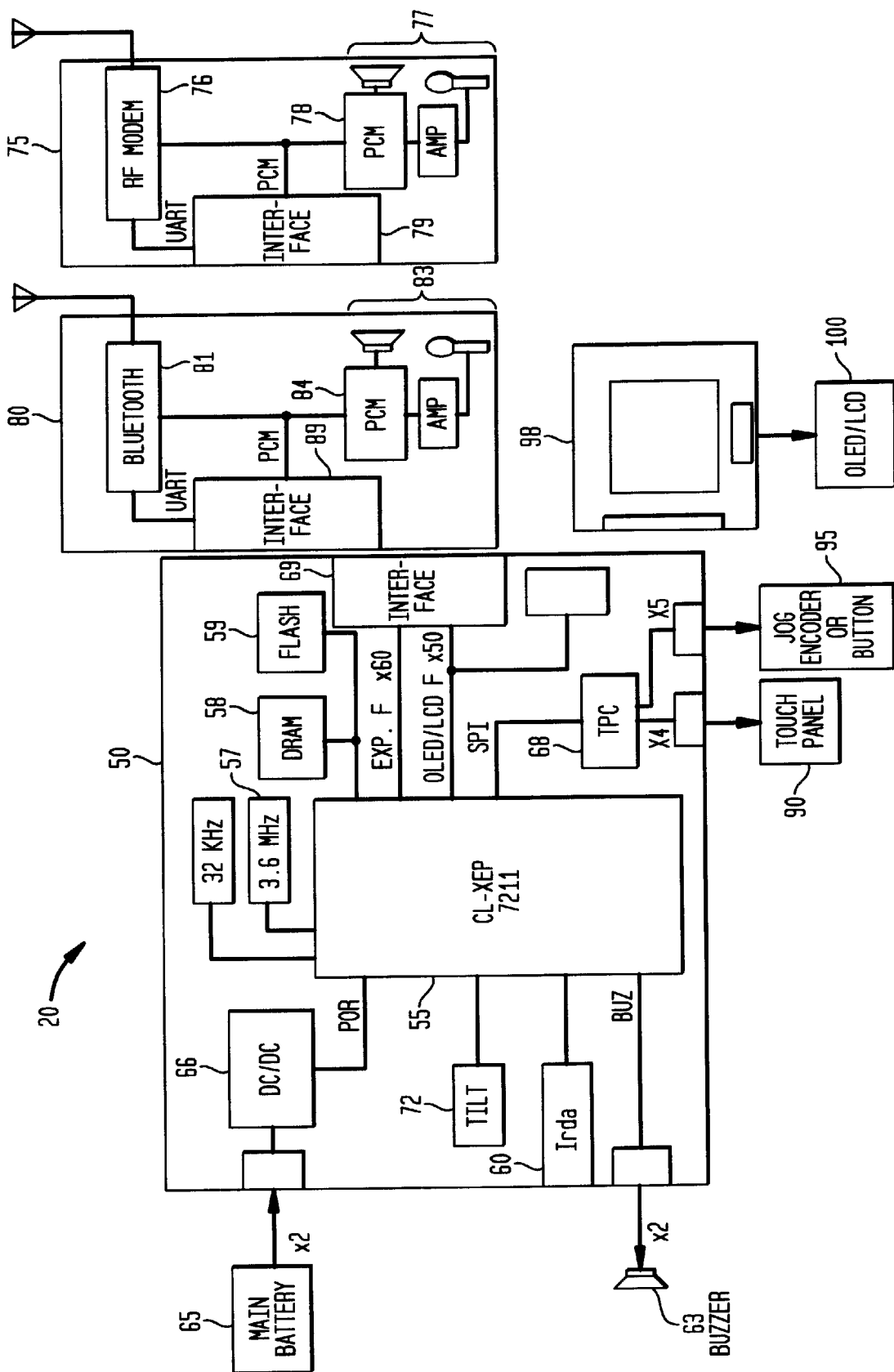


FIG. 4

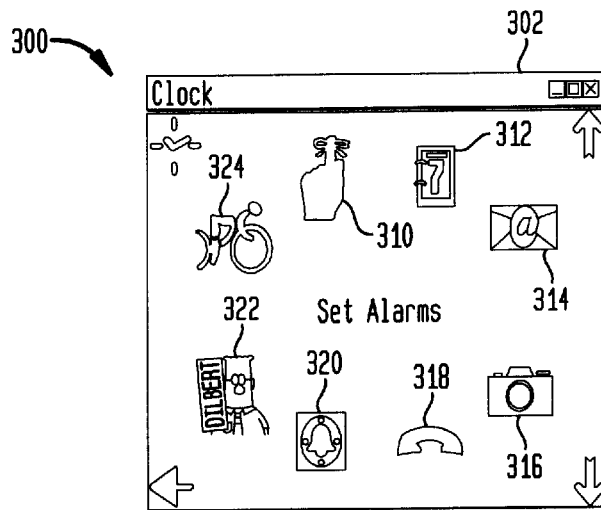


FIG. 5A

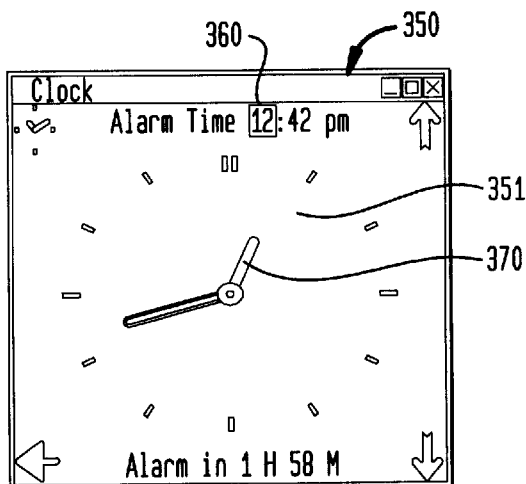


FIG. 5B

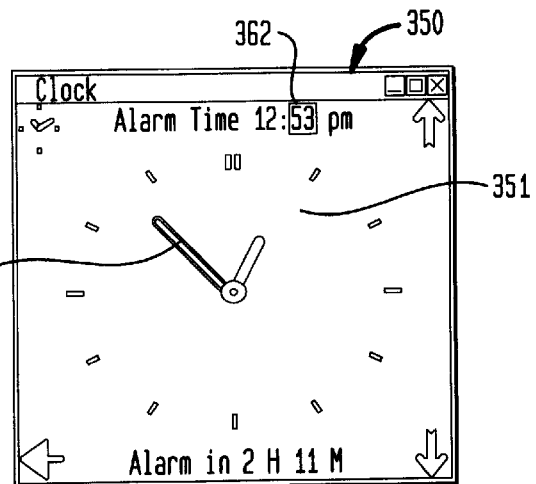


FIG. 6A

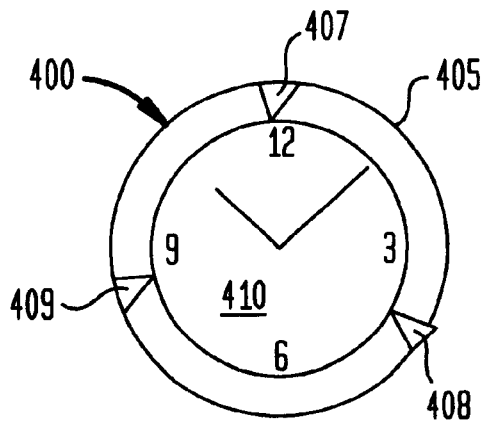


FIG. 6B

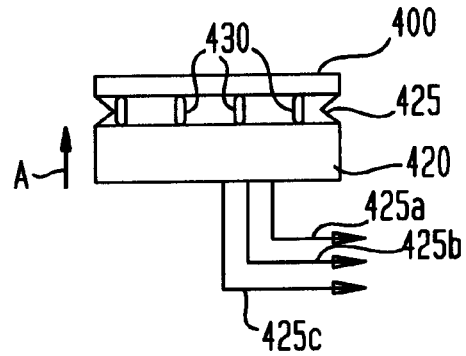
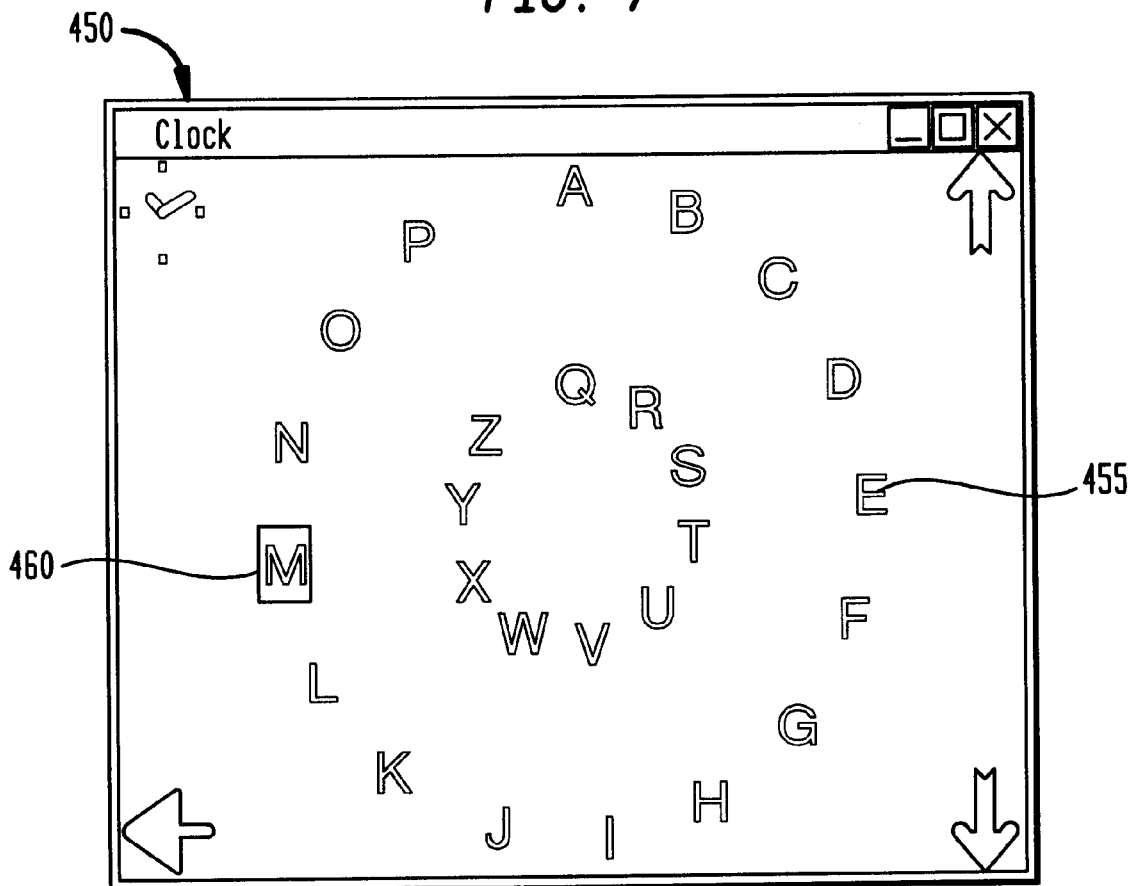


FIG. 7



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