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United States Patent [19] Hollenberg

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[54] SITUATION INFORMATION SYSTEM

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[51] Int. Cl.⁷ **H04Q 7/20**

[52] U.S. Cl. **455/456; 455/566; 455/557**

[58] Field of Search 455/432, 433, 455/435, 456, 556, 557, 558, 566, 12.1; 342/357, 454, 457; 340/825.47, 311.1, 905

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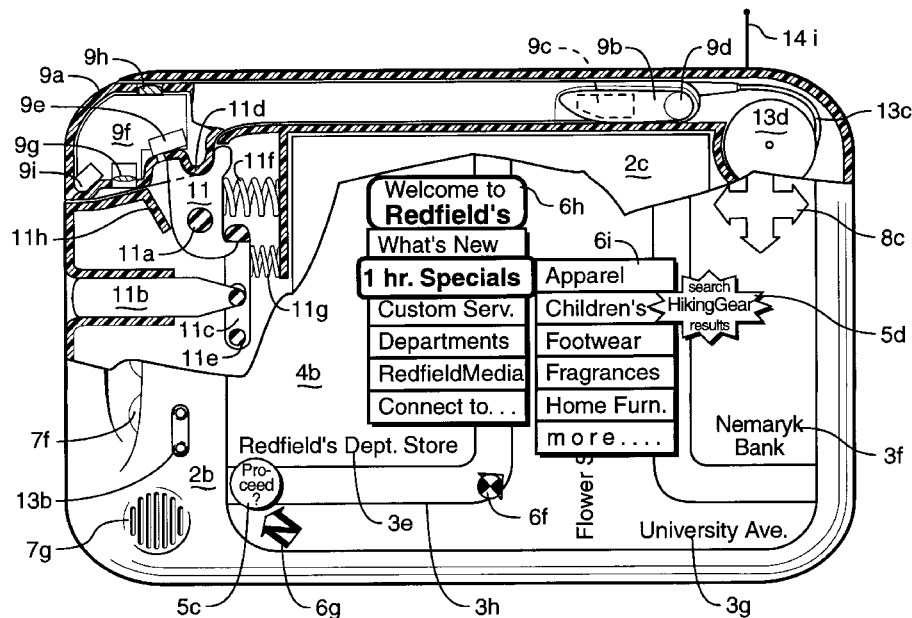
Primary Examiner—Nguyen Vo

Assistant Examiner—Sam Bhattacharya

[57] ABSTRACT

A wireless system for providing services and time-critical information about places and events to mobile computers and their users proximate to their current locations or potential destinations within enclosed areas, urban landscapes, and open areas, including travel distances and transit times, entertainment, merchants' messages, area attractions, communications, current locations of system users, and traffic congestion information and user-generated information from bar-coded objects and digital photographs of scenes and other materials. Included is a combination low-radiation dosage-reception handset for wireless communications which includes bar-code reader and digital camera peripheral devices for mobile computers, a bracket for interfacing a mobile computer with radio to external systems, and methods for improving the operations of computer reception, search, and display of such information for the edification, efficiency, and enjoyment of computer users.

15 Claims, 9 Drawing Sheets



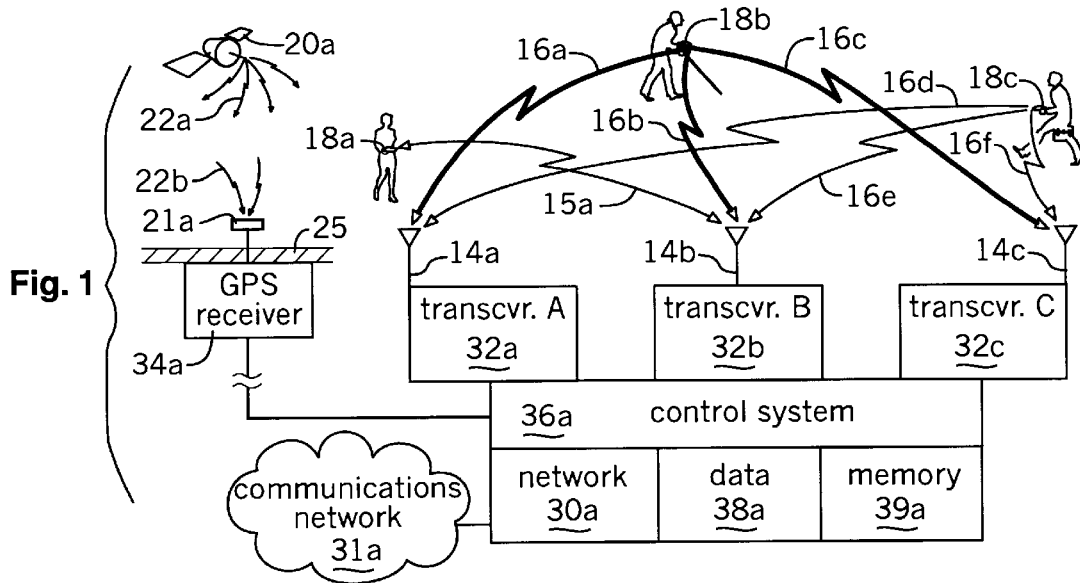
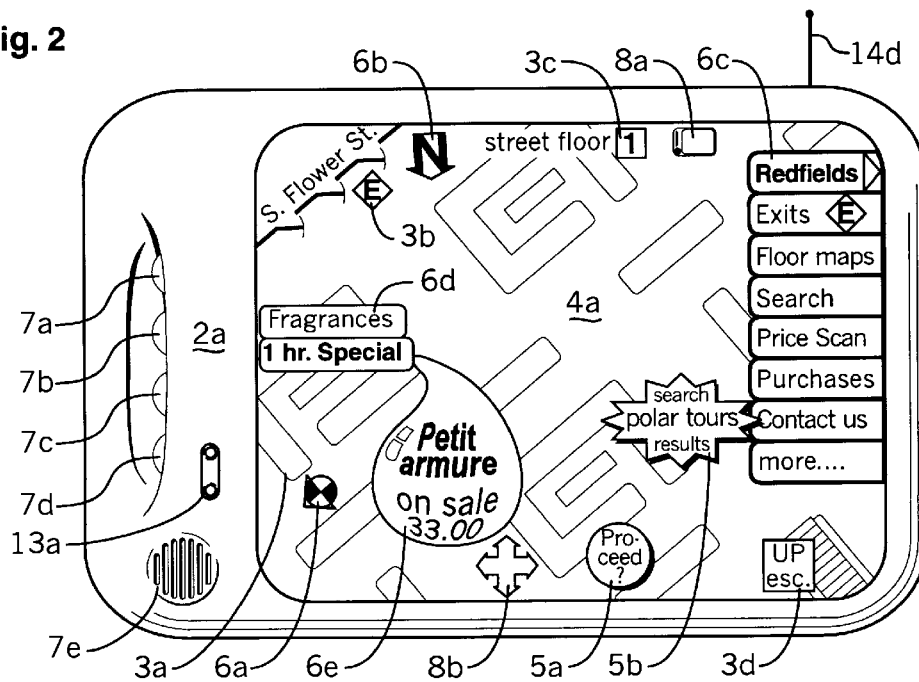
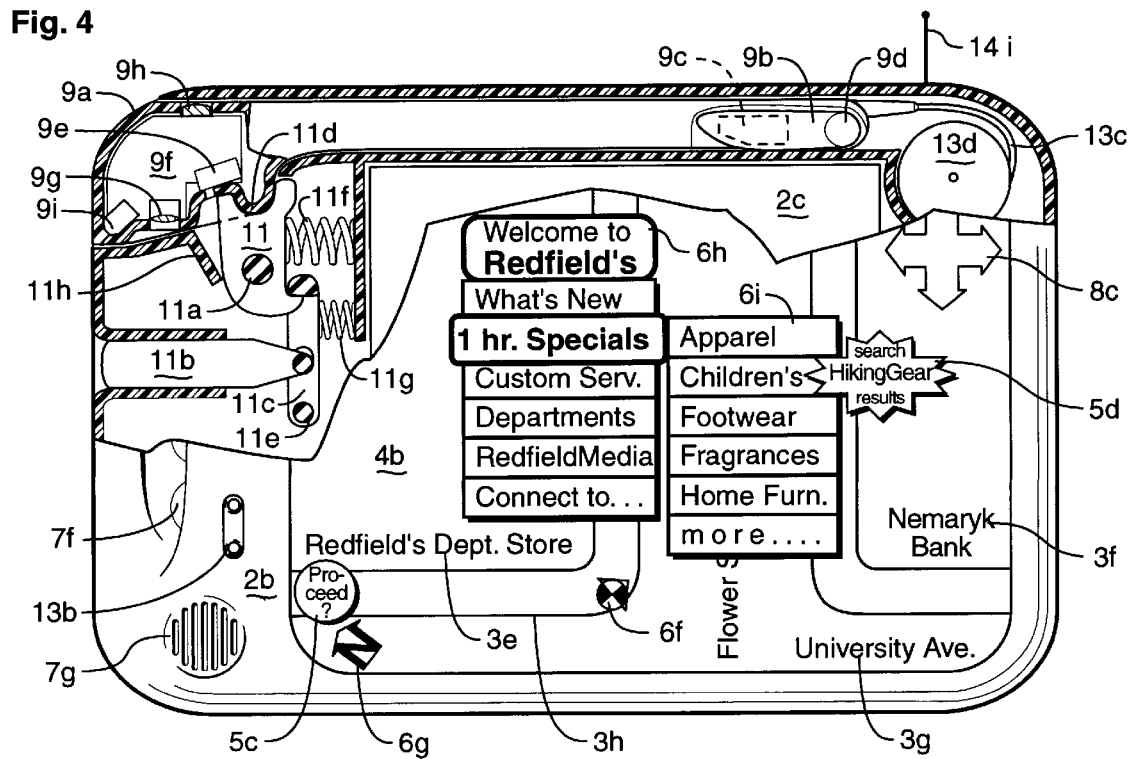
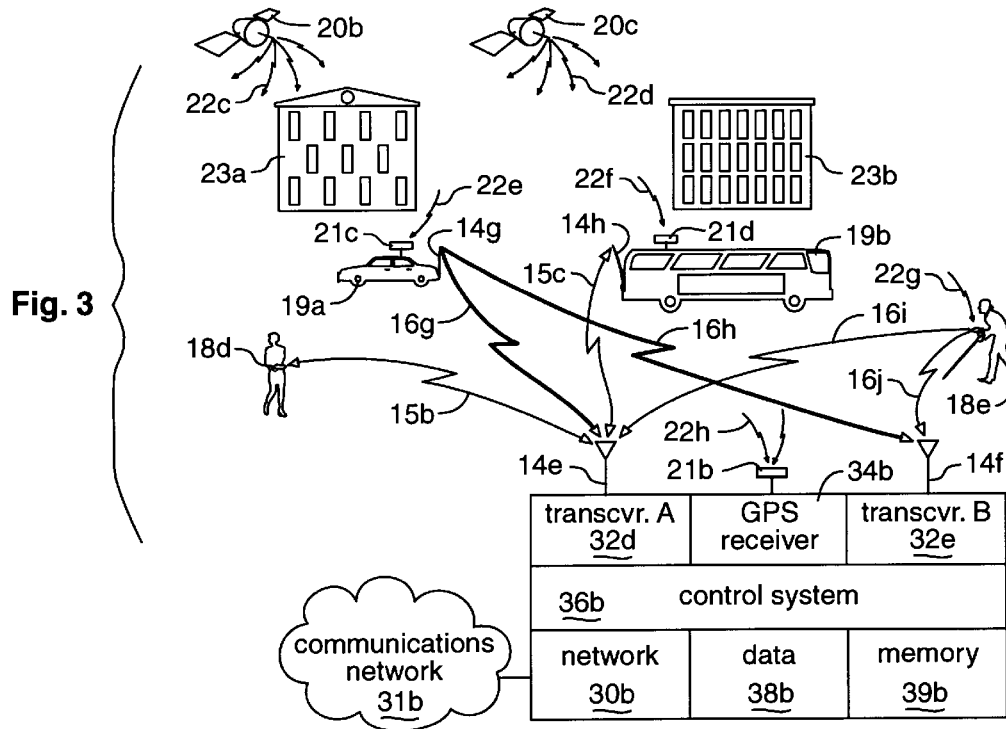


Fig. 2





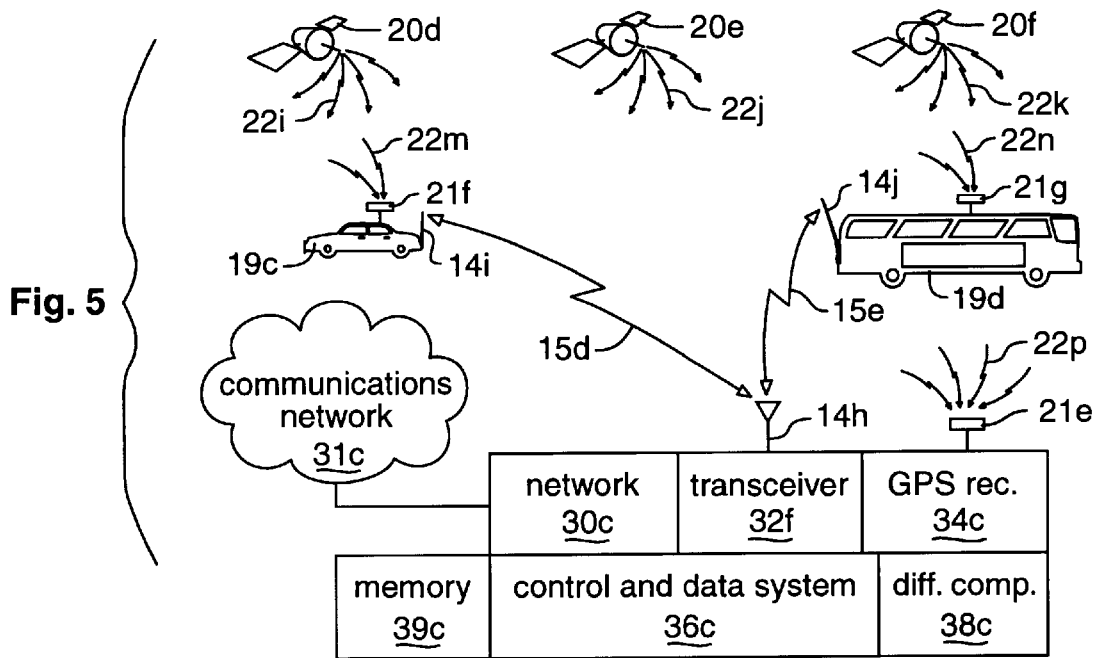
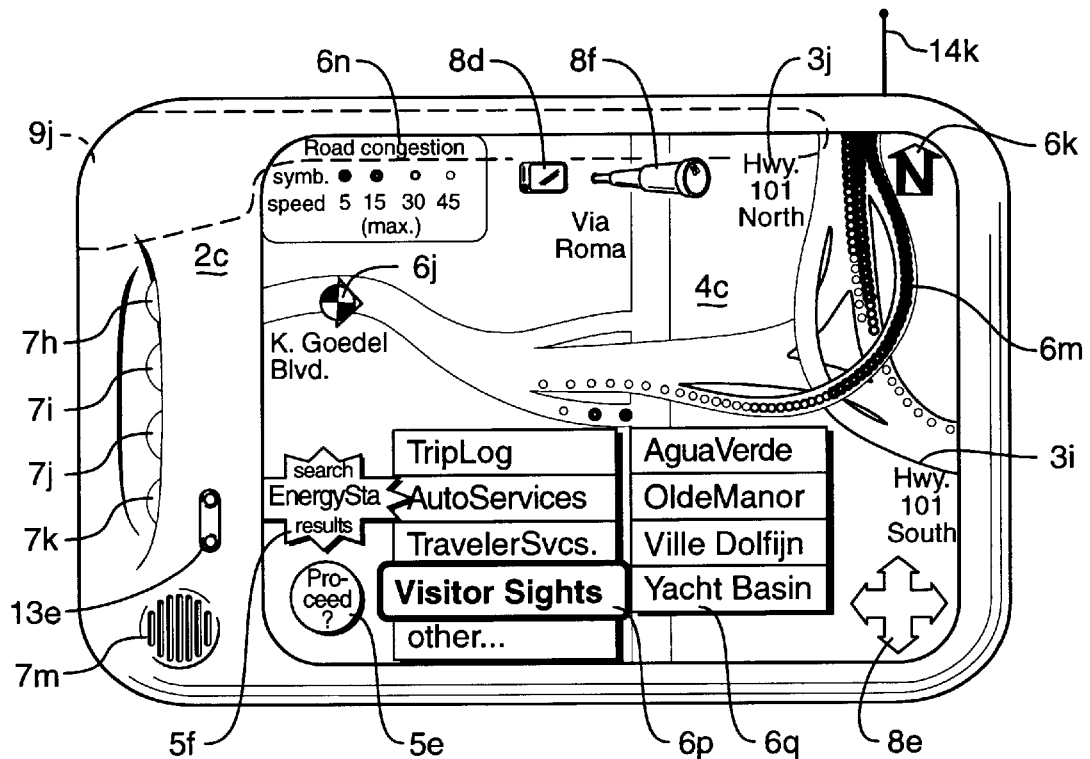
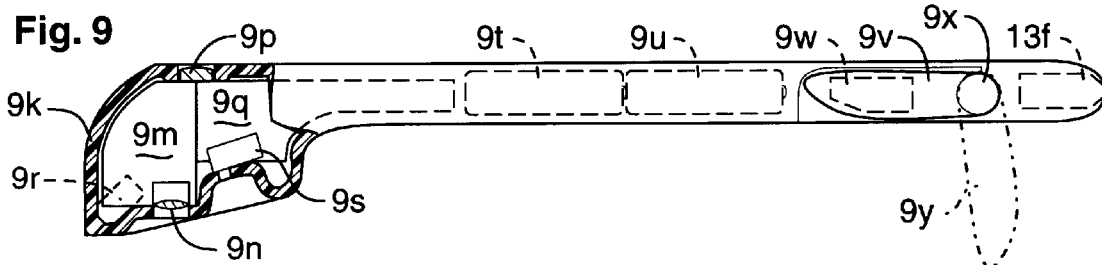
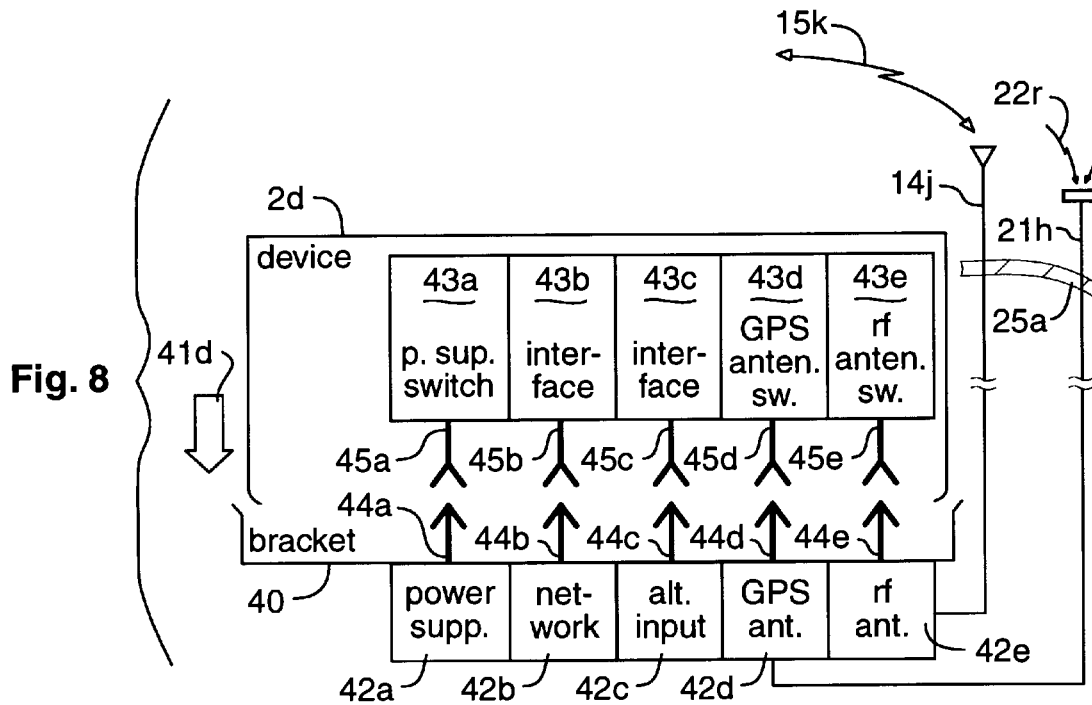
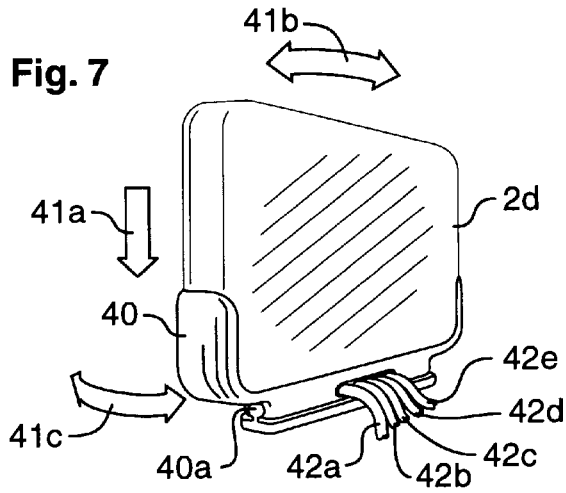


Fig. 6





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