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# United States Patent [19]

[11] Patent Number: **5,809,415**

Rossmann

[45] Date of Patent: **Sep. 15, 1998**

- [54] **METHOD AND ARCHITECTURE FOR AN INTERACTIVE TWO-WAY DATA COMMUNICATION NETWORK**
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- [73] Assignee: **Unwired Planet, Inc.**, Redwood Shores, Calif.
- [21] Appl. No.: **570,210**
- [22] Filed: **Dec. 11, 1995**
- [51] Int. Cl.<sup>6</sup> ..... **H04Q 7/20**
- [52] U.S. Cl. .... **455/422; 455/426; 455/31.3; 455/31.2; 370/352; 370/383; 379/67; 379/89**
- [58] **Field of Search** ..... **370/352, 383, 370/389, 390, 392, 401; 379/67, 89, 93.07, 93.08, 93.25, 100, 100.11, 114, 201, 207; 455/422, 414, 552, 426, 466, 31.2, 31.3, 550, 557, 575, 556, 564, 566; 364/514 R**

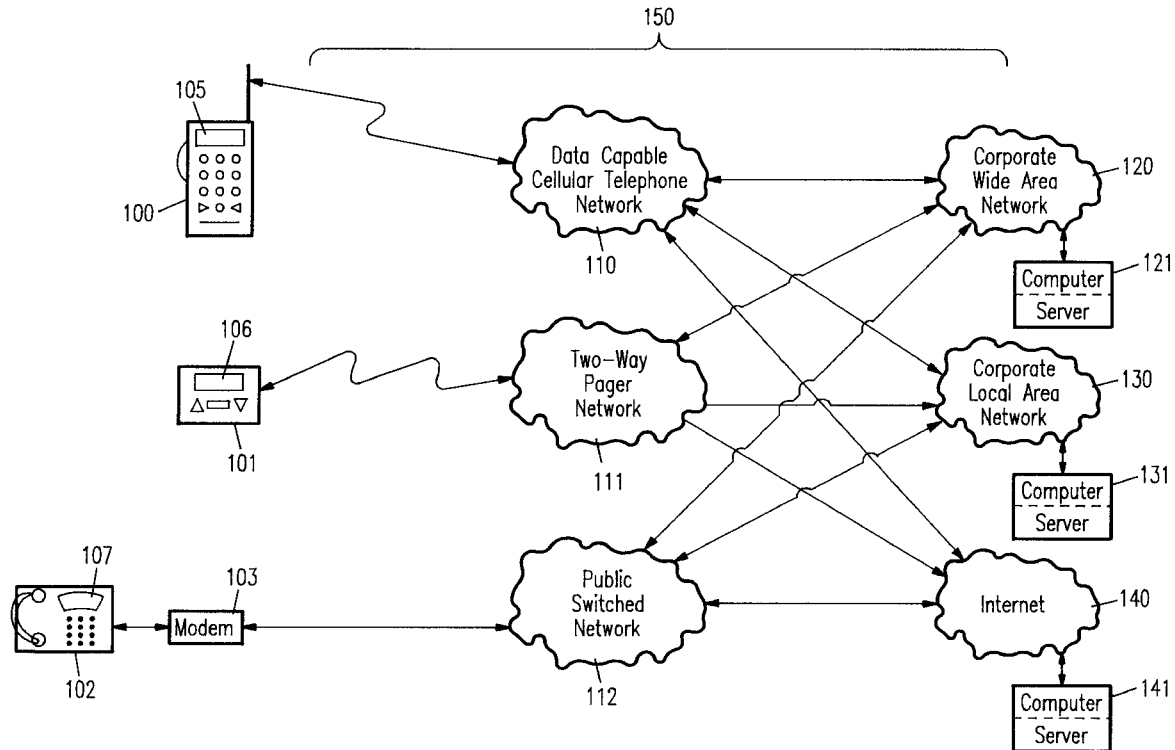
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*Assistant Examiner*—Keith Ferguson  
*Attorney, Agent, or Firm*—Skjerven, Morrill, MacPherson, Franklin, & Friel LLP; Forrest E. Gunnison

## [57] ABSTRACT

A two-way data communication device such as a data ready cellular telephone, a two-way pager, or a telephone communicates via a two-way data communication network with a server computer on a computer network that has an interface to the two-way data communication network, i.e., is coupled to the two-way data communication network. For example, the computer network can be a corporate wide area network, a corporate local area network, the Internet, or any combination of computer networks. The two-way data communication device utilizes a client module to transmit message including a resource selector chosen by the user to a server on a server computer on the computer network. The server processes the message and transmits a response over the two-way data communication network to the client module. The client module interprets the response and presents the response to the user via a structured user interface. Alternatively, the user transmits a request that directs the server to transmit the response to the request to another location or to another user.

- [56] **References Cited**
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**54 Claims, 36 Drawing Sheets**



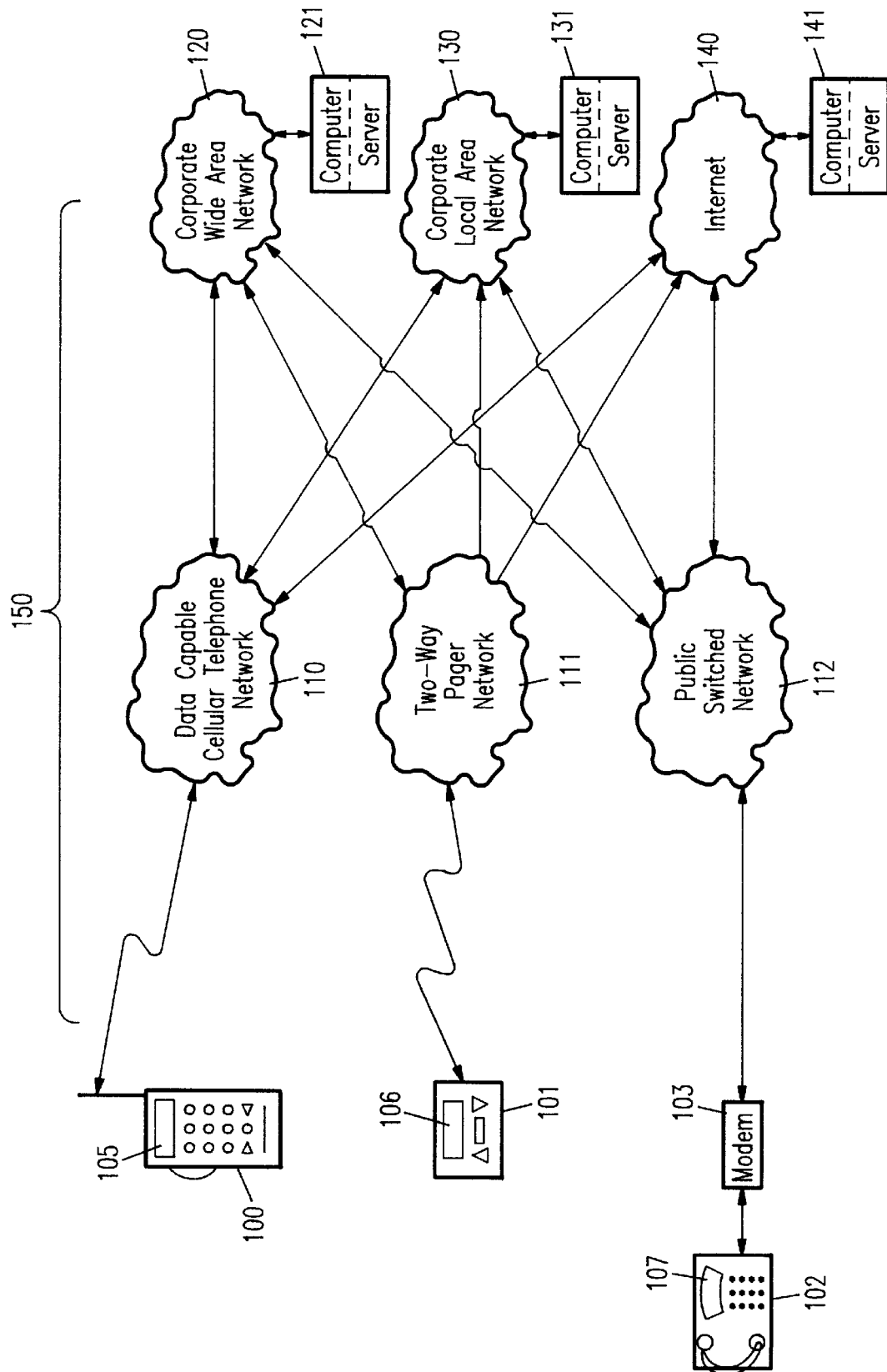


FIG. 1

FIG. 2A

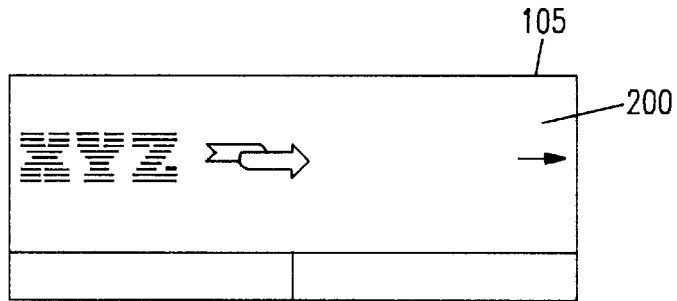


FIG. 2B

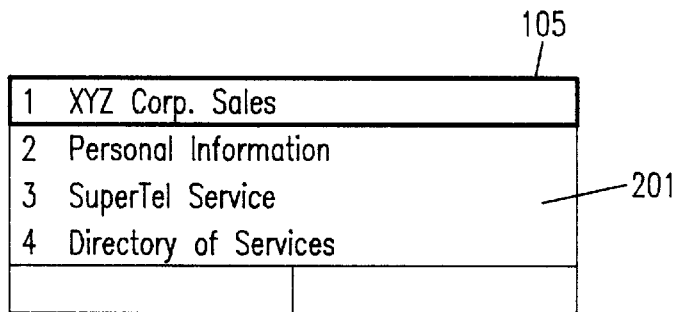


FIG. 2C

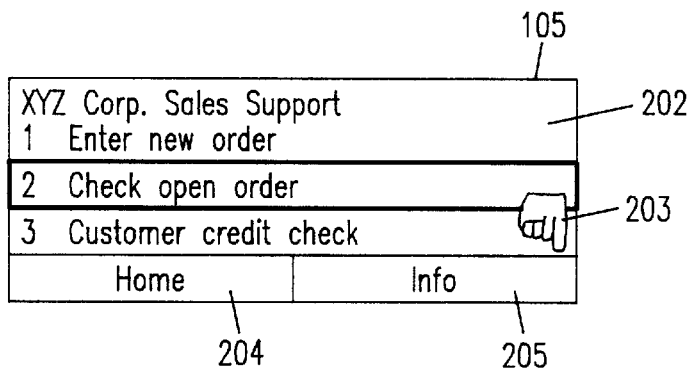


FIG. 2D

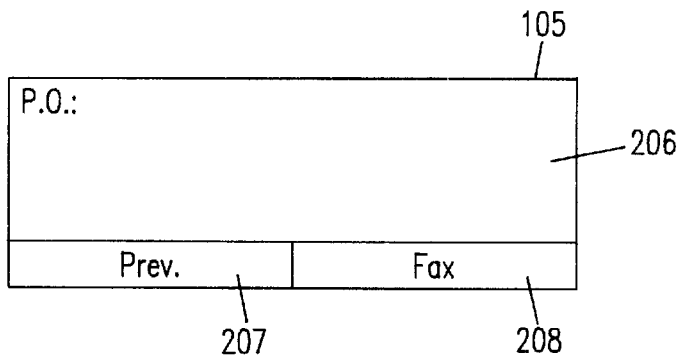


FIG. 2E

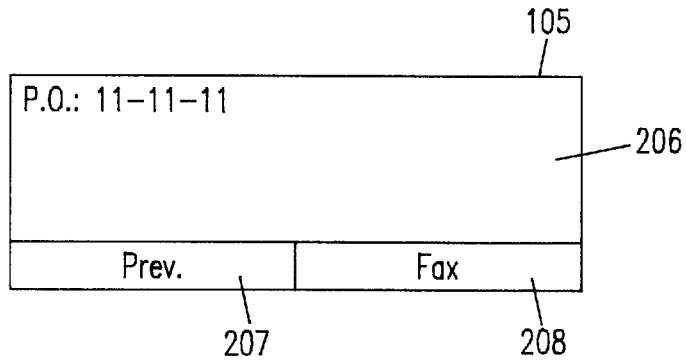


FIG. 2F

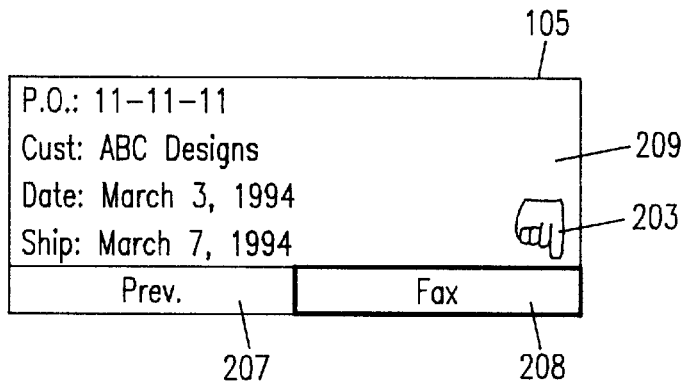


FIG. 2G

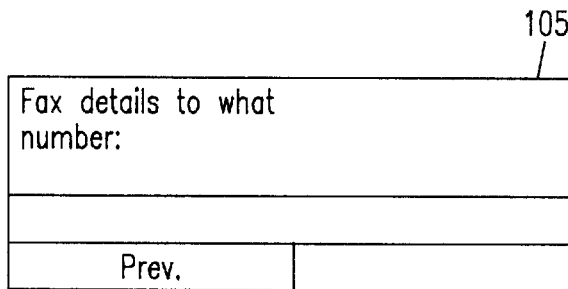
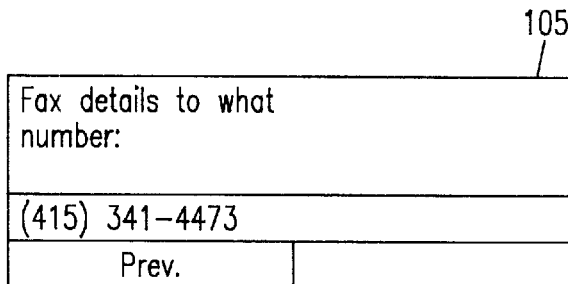


FIG. 2H



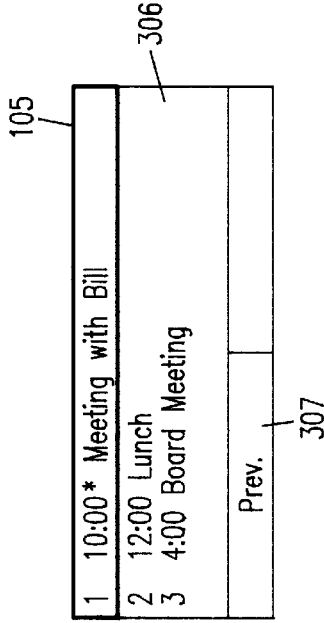


FIG. 3D

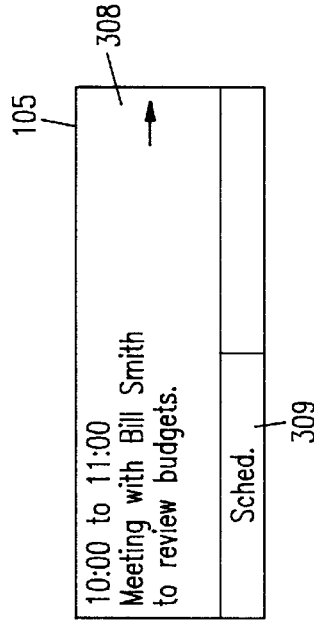


FIG. 3E

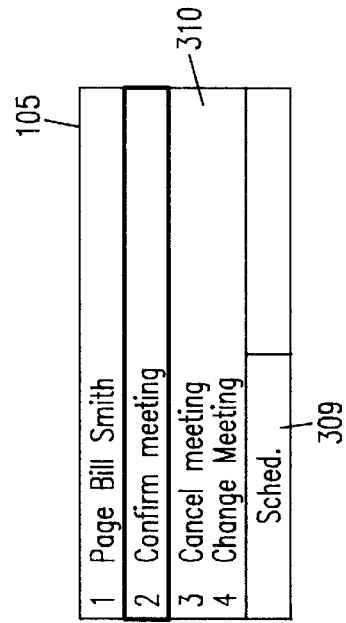


FIG. 3F

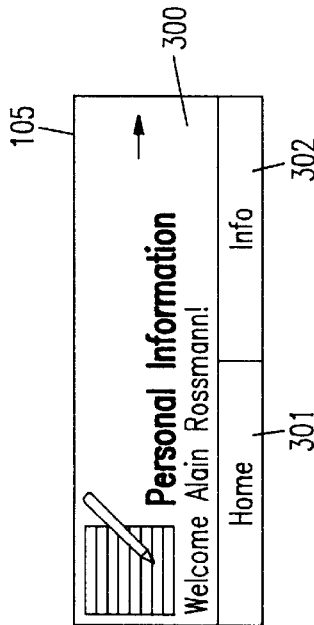


FIG. 3A

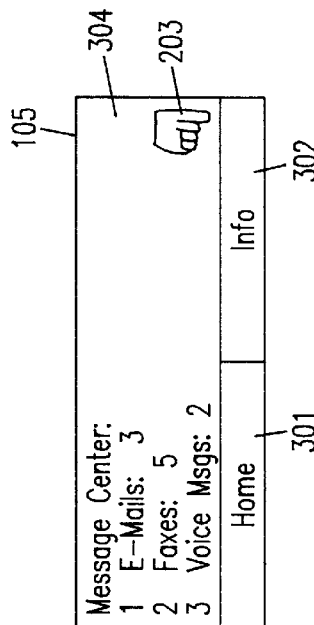


FIG. 3B

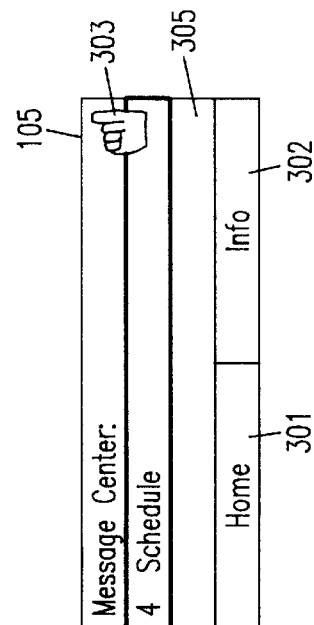


FIG. 3C

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