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Sheha et al.

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(45) **Date of Patent: Feb. 19, 2008**

(54) **SYSTEM AND METHOD FOR PROVIDING ROUTING, MAPPING, AND RELATIVE POSITION INFORMATION TO USERS OF A COMMUNICATION NETWORK**

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(51) **Int. Cl.**
H04Q 7/20 (2006.01)

(52) **U.S. Cl.** **455/457**; 455/456.4; 379/201.07; 379/201.06; 379/201.08

(58) **Field of Classification Search** 342/450, 342/457, 357.08, 357.09, 357.1, 357.13, 342/357.17, 357.06, 357.01; 455/457, 456.1, 455/415, 566, 414.1, 411, 410, 427, 12.1, 455/404.1, 404.2, 456.2, 456.3, 456.5, 456.6, 455/517, 456.4; 701/202, 209, 211, 201, 701/200, 207, 208, 213, 300; 379/88.19, 379/142.06, 142.05, 142.1, 93.23, 88.2, 88.21, 379/142.04, 142.17, 142.02, 201.06, 201.07, 379/201.08, 201.11; 340/988, 989, 990, 340/991, 993, 995.1, 995.12, 995.2, 995.19, 340/995.24, 995.23

See application file for complete search history.

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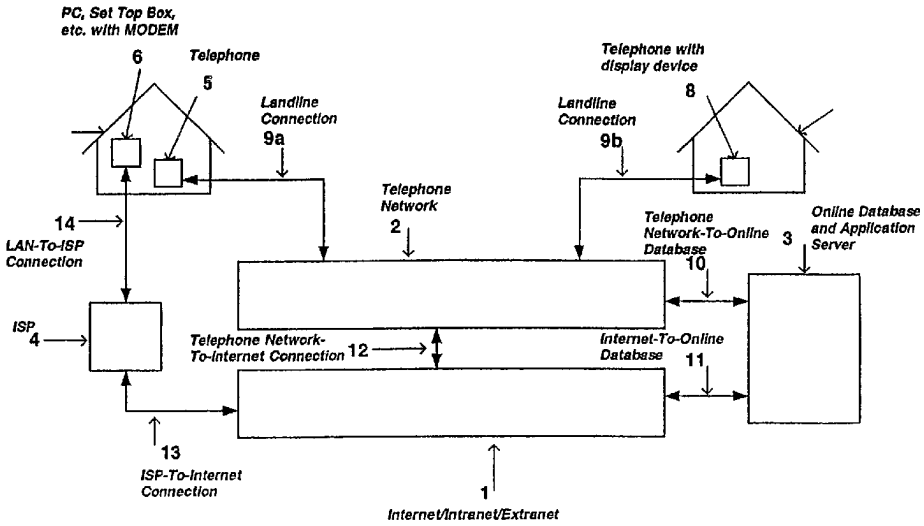
(57) **ABSTRACT**

The present invention is directed to a system and method for providing real-time position information of one party to another party by utilizing a conventional telecommunication network system such as the convention telephone network, a mobile telecommunications network, a computer network, or the Internet. More specifically, the preferred embodiments of the present invention allow a caller and a receiver of a telephone call to provide to and receive from each other position information related to the caller and/or receiver's physical location, including address information, GPS coordinates, nearby fixed locations such as a parking structure, etc. Additionally, the preferred embodiments of the present invention allow a caller and receiver to retrieve routing instructions or maps for traveling to or from each other. In another embodiment of the present invention, a party may locate the position of another party via the entry of the other party's unique identifier such as a phone number of the other party's mobile phone. In yet another embodiment of the present invention, the position information of a party may be concurrently delivered to another party's computer terminal whereby the other party can process the information in further detail.

60 Claims, 9 Drawing Sheets



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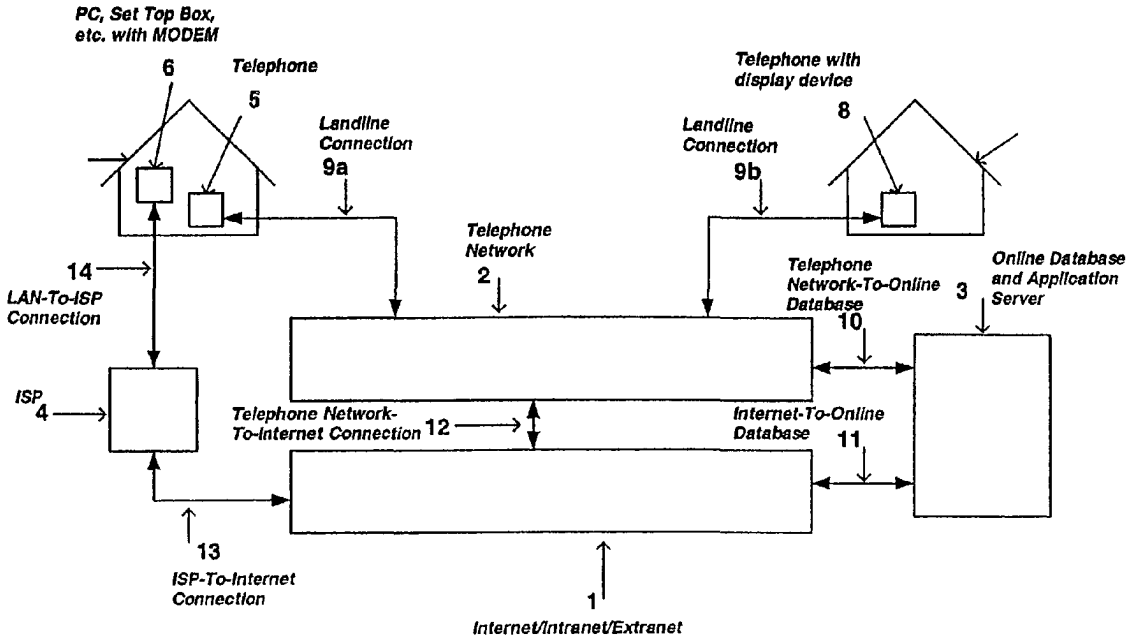

FIG. 1

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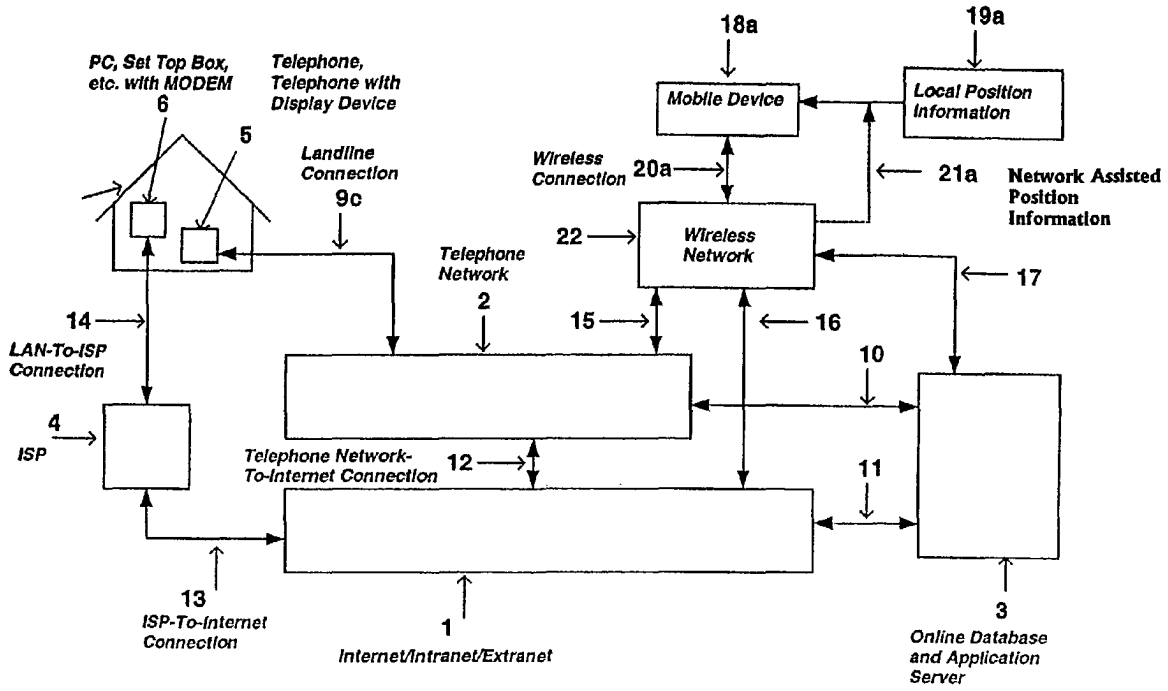

FIG. 2

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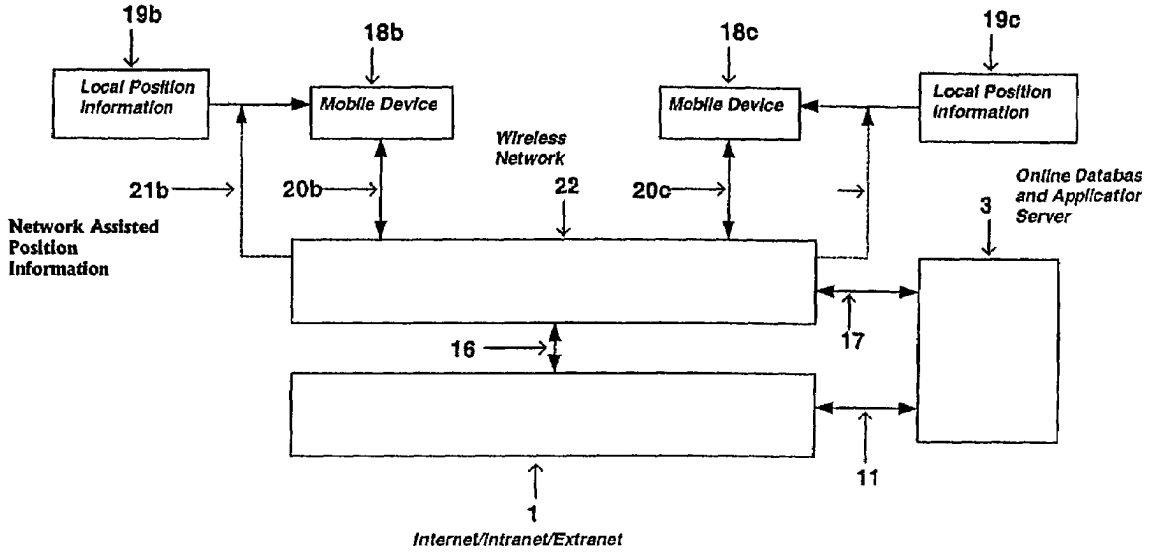

FIG. 3

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