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**Halverson et al.**

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(54) **MOBILE NAVIGATION OF NETWORK-BASED ELECTRONIC INFORMATION USING SPOKEN INPUT**

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- (60) Provisional application No. 60/124,720, filed on Mar. 17, 1999, provisional application No. 60/124,719, filed on Mar. 17, 1999, and provisional application No. 60/124,718, filed on Mar. 17, 1999.

- (51) **Int. Cl.**<sup>7</sup> ..... **G06F 15/16**
- (52) **U.S. Cl.** ..... **709/218; 709/202; 709/217; 709/219; 709/227; 704/257**
- (58) **Field of Search** ..... **709/202, 218, 709/217, 219, 227; 707/5, 3, 4; 704/257, 270.1, 275, 246**

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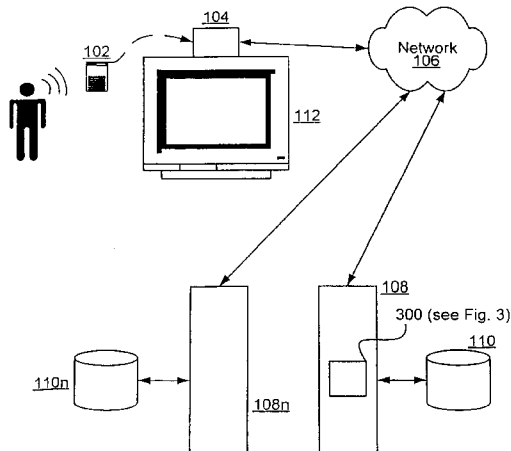
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(57) **ABSTRACT**

A system, method, and article of manufacture are provided for navigating an electronic data source by means of spoken language where a portion of the data link between a mobile information appliance of the user and the data source utilizes wireless communication. When a spoken input request is received from a user who is using the mobile information appliance, it is interpreted. The resulting interpretation of the request is thereupon used to automatically construct an operational navigation query to retrieve the desired information from one or more electronic network data sources, which is transmitted to the mobile information appliance.

**27 Claims, 7 Drawing Sheets**



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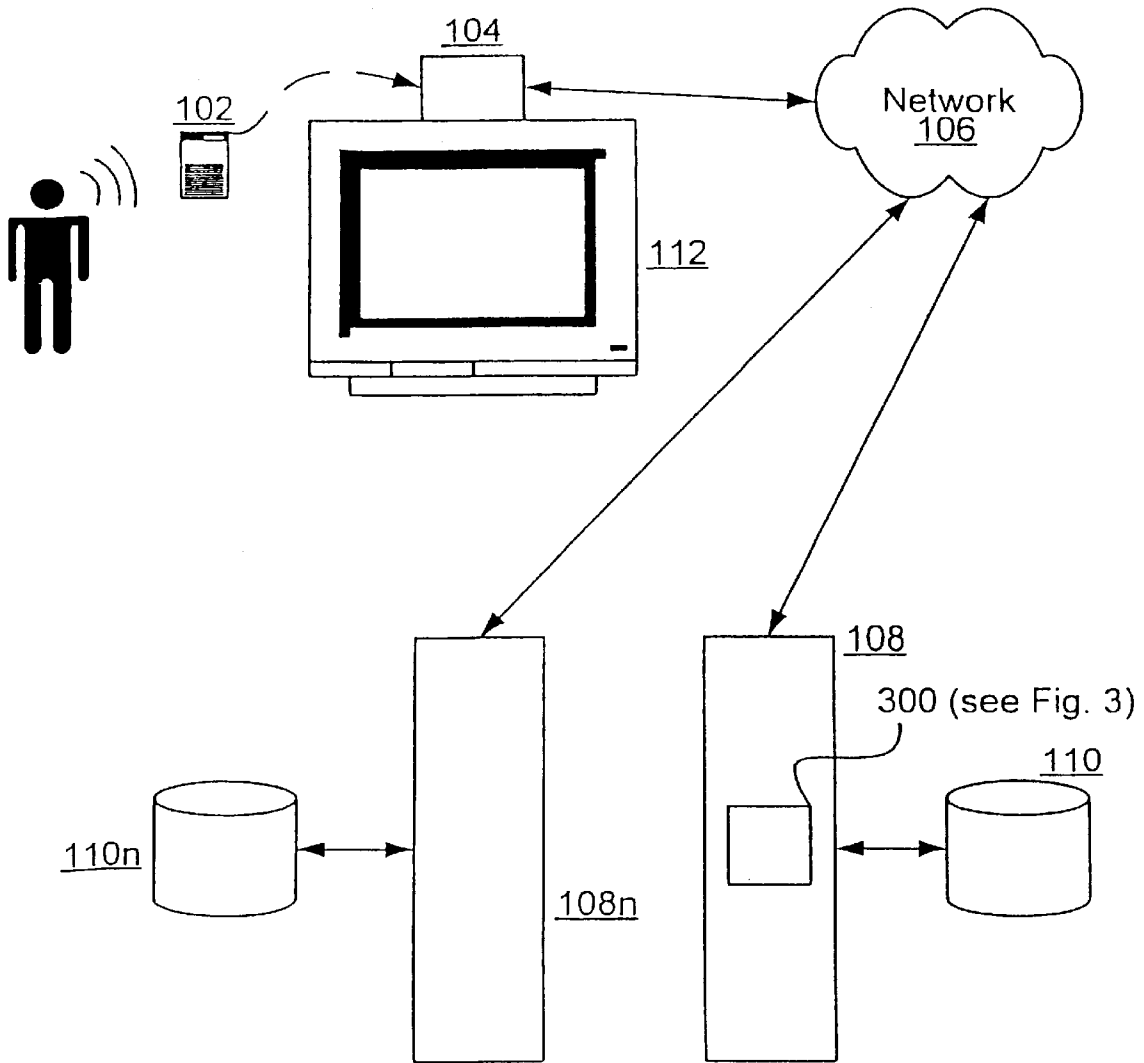


Fig. 1a

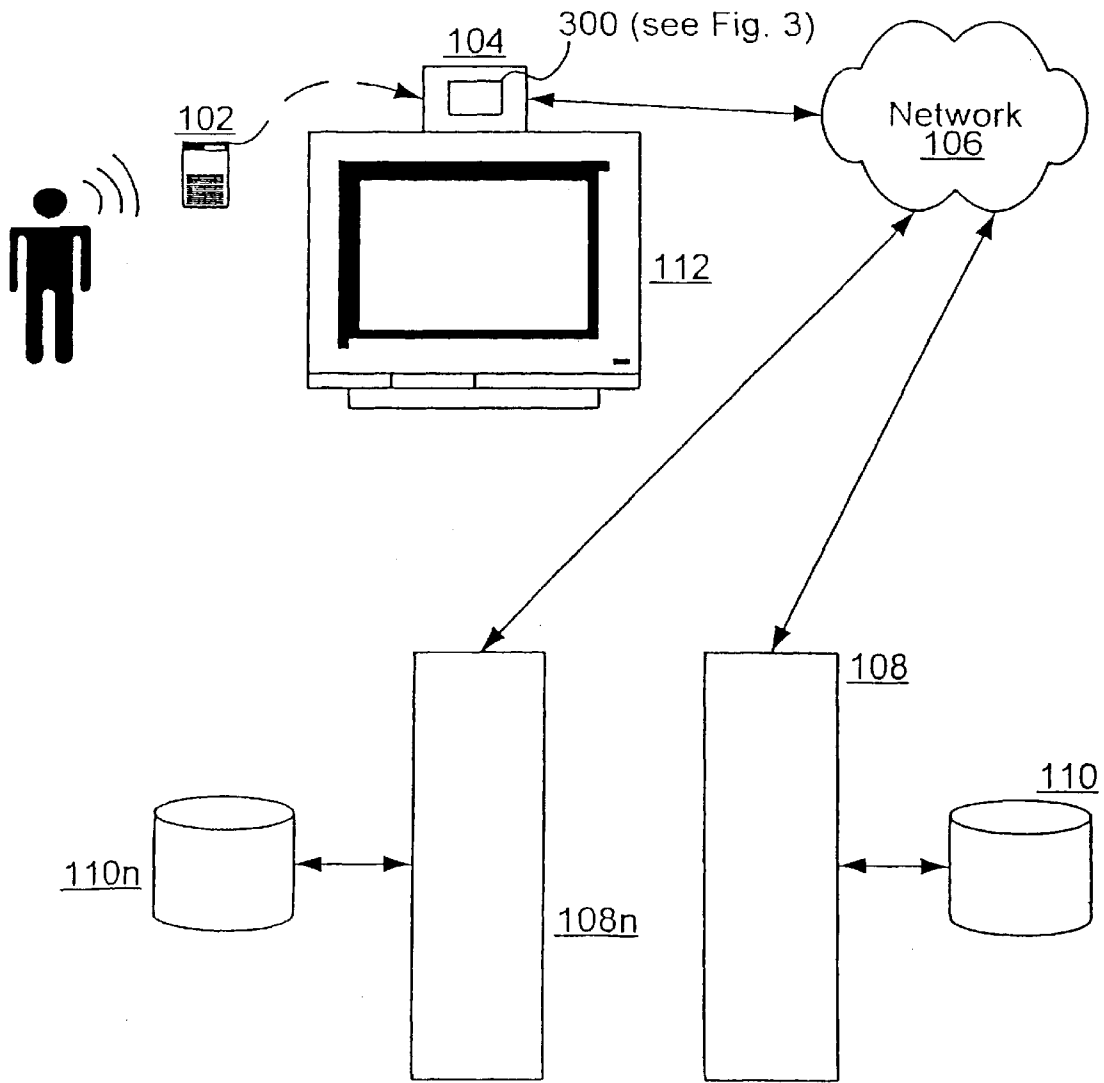


Fig. 1b

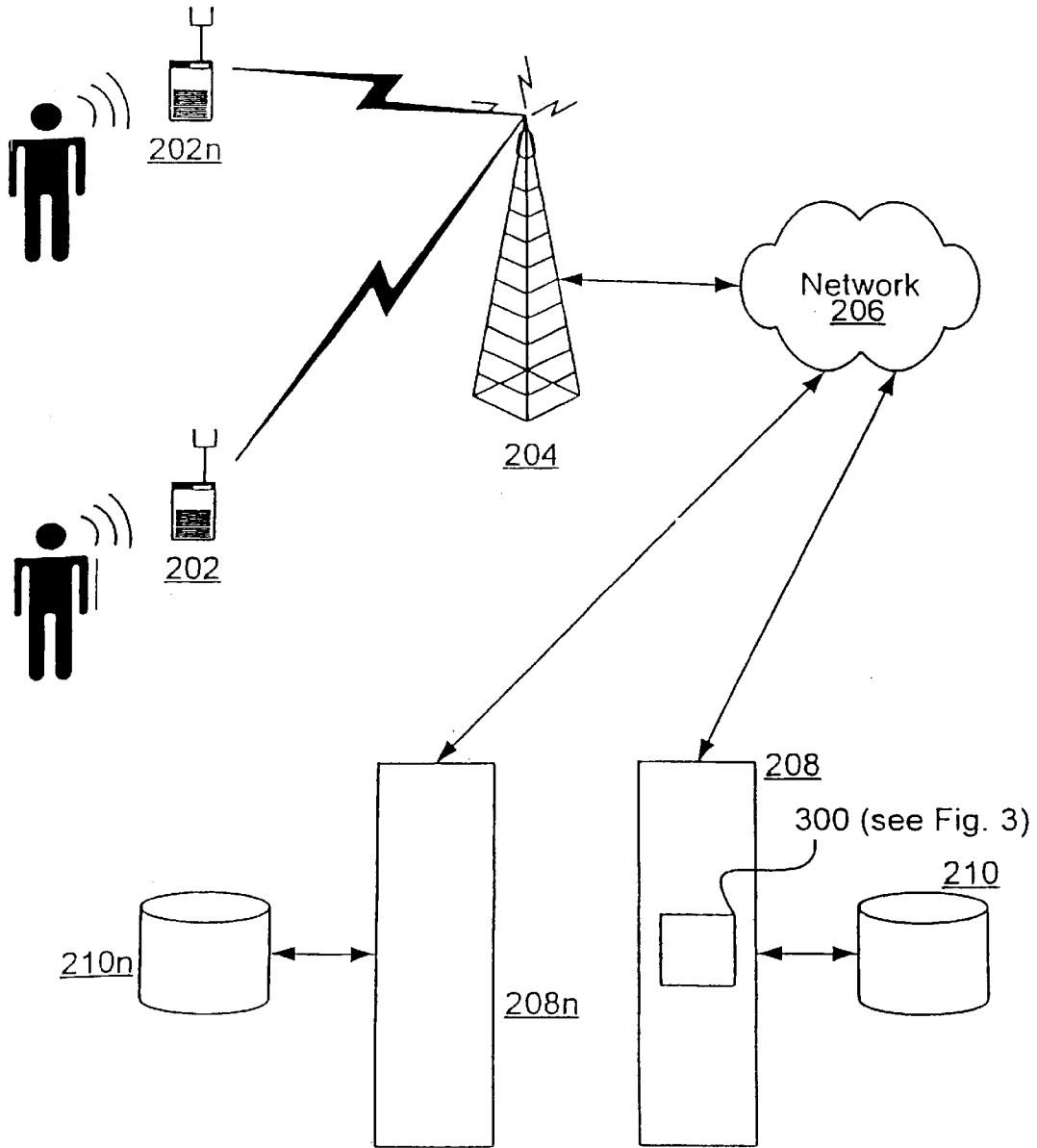


Fig. 2

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