

- [54] **AUTOMOBILE NAVIGATION SYSTEM USING REMOTE DOWNLOAD OF DATA**
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- [73] Assignee: **Visteon Technologies, LLC**, Sunnyvale, Calif.
- [21] Appl. No.: **08/816,107**
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- [51] **Int. Cl.<sup>6</sup>** ..... **G06F 165/00**
- [52] **U.S. Cl.** ..... **701/209; 701/202; 701/210; 340/990; 340/995**
- [58] **Field of Search** ..... **701/202, 207, 701/208, 209, 210, 211; 73/178 R; 340/988, 990, 995, 989**

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[57] **ABSTRACT**

A method of enabling an on-board vehicle navigation system to compute a route from a current position of the vehicle to a desired destination is provided. A user of the navigation system in a vehicle utilizes a cellular telephone or any other wireless, two-way audio communications link to contact an operator in a remote communications center. The user informs the operator of his desired destination. The operator in the communications center accesses a computer database to determine the exact location of the desired destination in terms of latitude/longitude, street address, or other similar information. The operator then causes the information specifying the exact location to be transmitted from the communications center to the on-board vehicle navigation system over a data link. The on-board vehicle navigation system receives the location information and uses it to compute a route from the vehicle's current position to the desired destination.

**43 Claims, 4 Drawing Sheets**

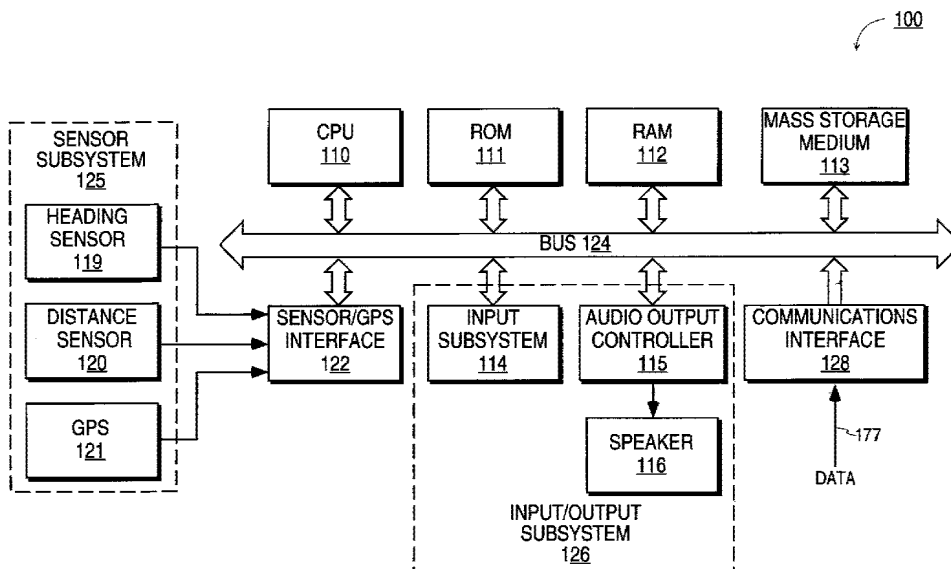
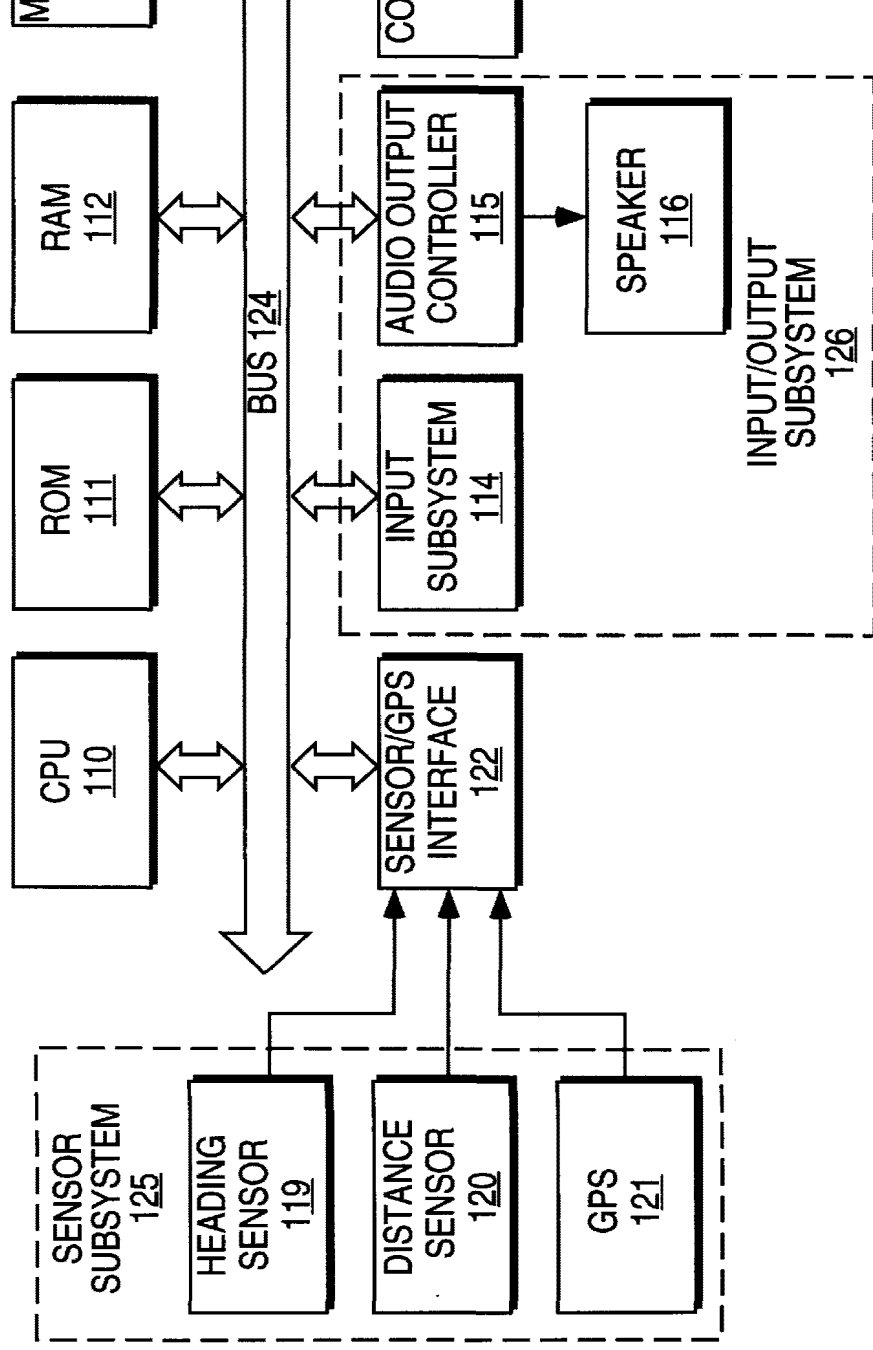
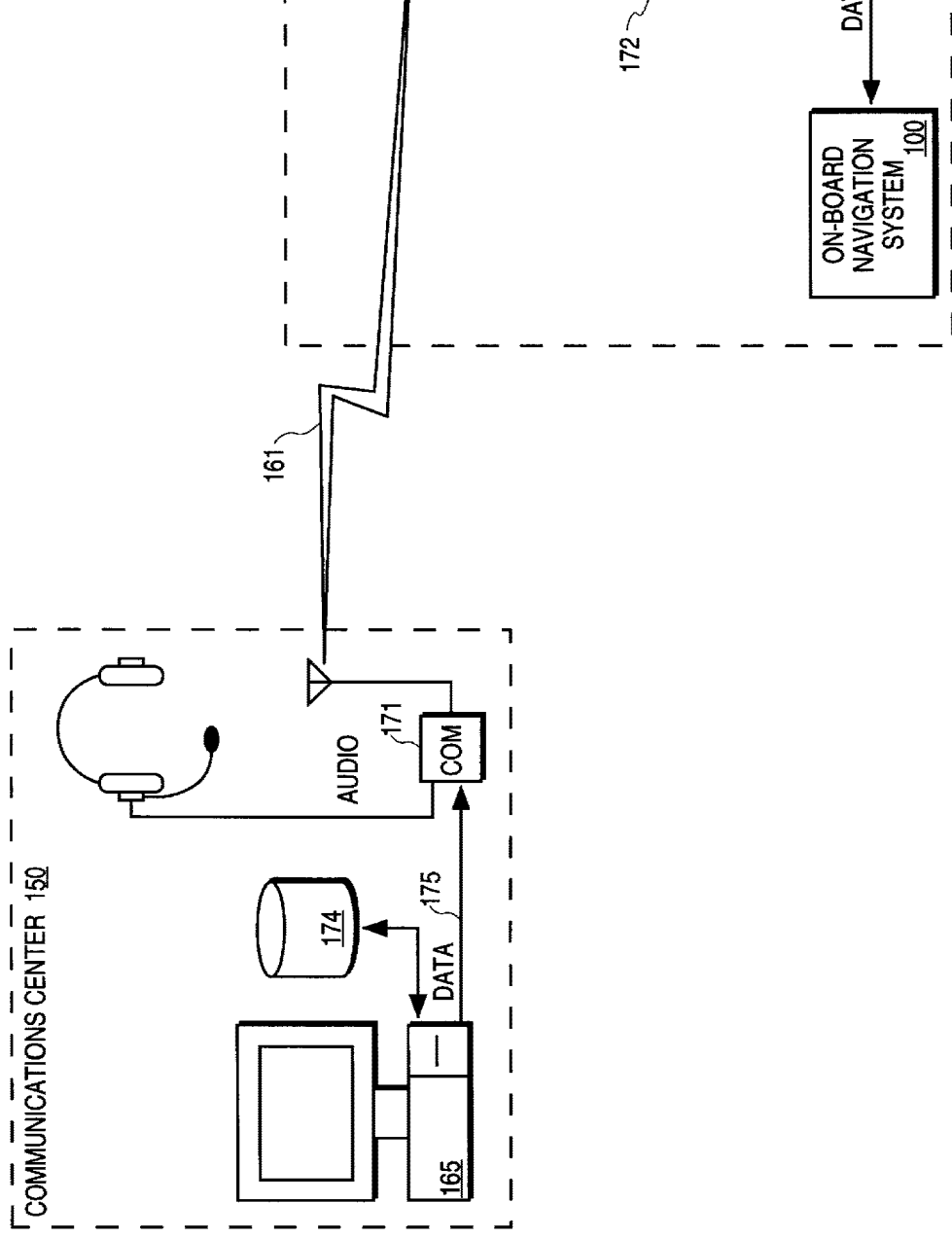
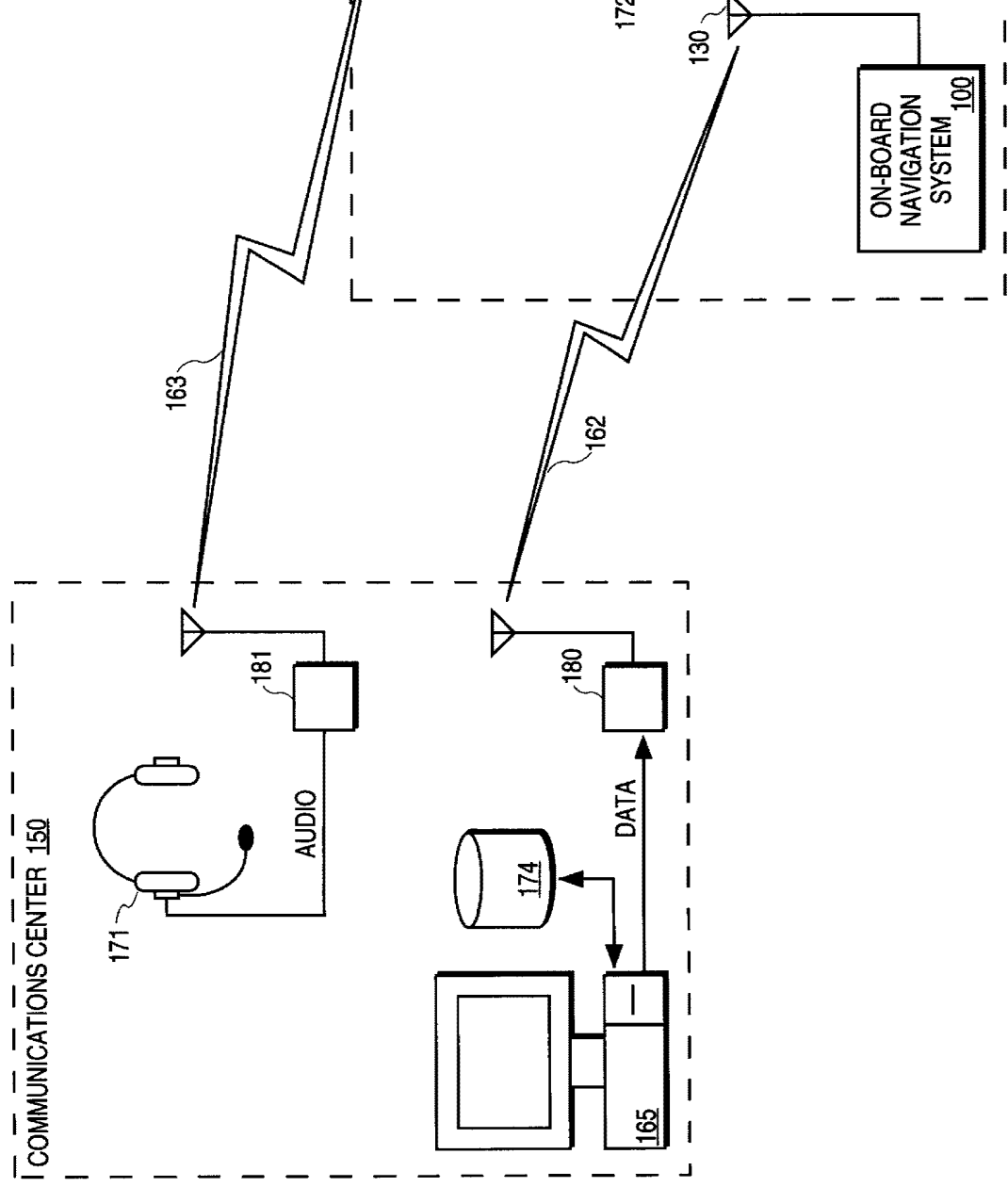


FIG. 1

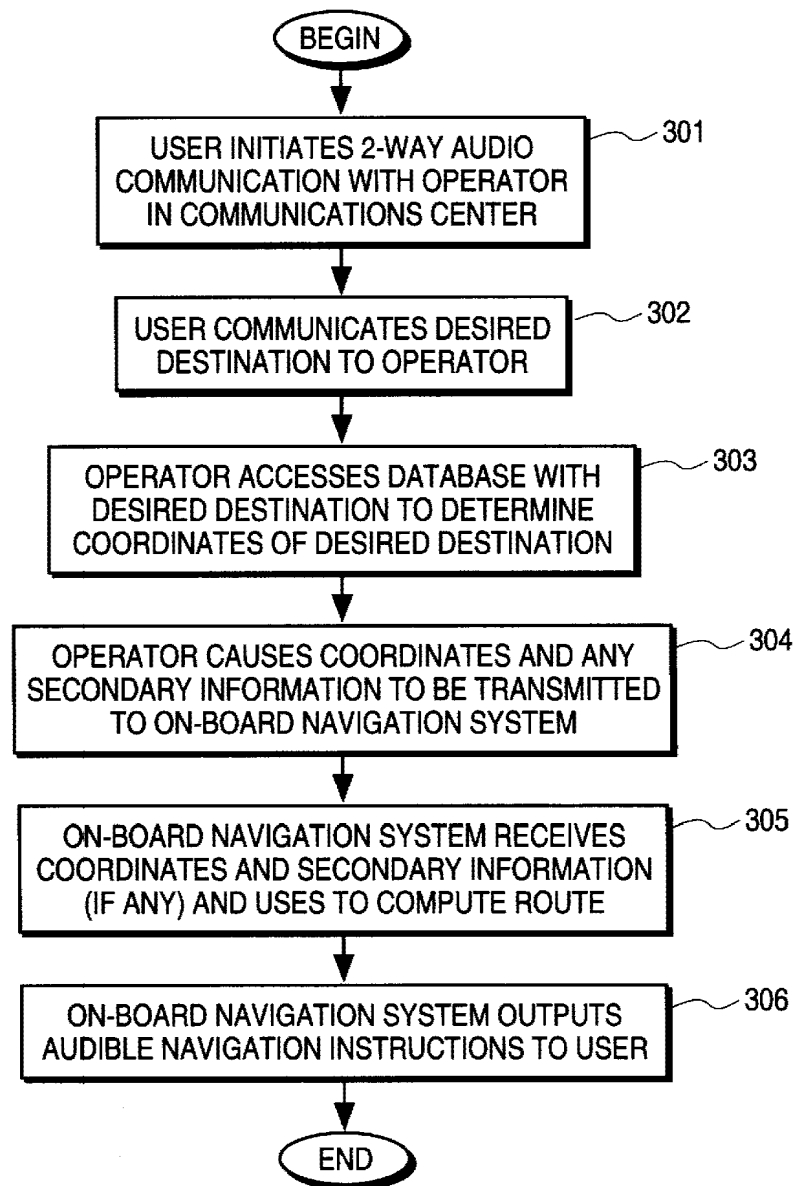




**FIG. 2A**



**FIG. 2B**

**FIG. 3**

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