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Durocher et al.

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(54) **INTERACTIVE PROCESS FOR USE AS A
 NAVIGATIONAL AID AND DEVICE FOR ITS
 IMPLEMENTATION**

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(52) U.S. Cl. **701/202; 701/207; 701/208**

(58) Field of Search 701/201, 202,
 701/205, 207, 208, 209, 211

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Primary Examiner—Michael J. Zanelli

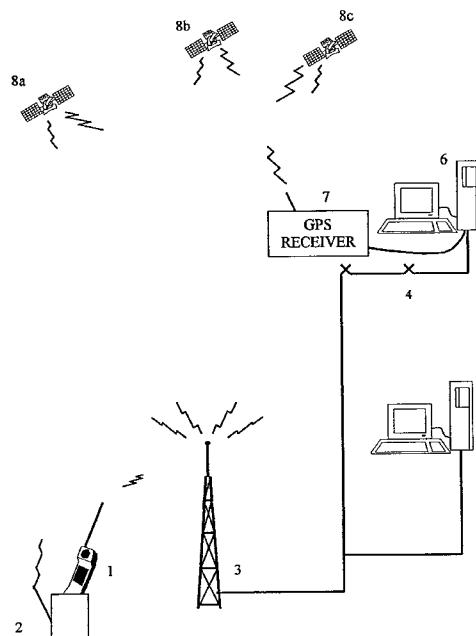
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(57) **ABSTRACT**

The invention relates to a system to be used as an aid in navigation comprising a mobile terminal (1, 2) connected to a centralized server (5), and more specifically to the improvements required to convert a portable radiotelephone (1) into a complete and precise navigational aid system. The invention is characterized by the fact that the itinerary requests of the mobile terminal (1, 2) are transmitted to a centralized server (5) by a radio relay link, and by the fact that the server (5), which contains the necessary cartographic and program data, calculates the itinerary requested and transmits to the mobile terminal (1, 2) the data concerning the straight line and arc segments that constitute the itinerary, thereby permitting real-time guidance. The invention is further characterized by the fact that the server (5) evaluates the possibility of the craft deviating from its course, as well as by the fact that the server (5) also calculates and transmits the data concerning the segments of possible deviation itineraries in an area of proximity to the main itinerary. The invention can be applied in particular to automotive vehicles.

18 Claims, 4 Drawing Sheets



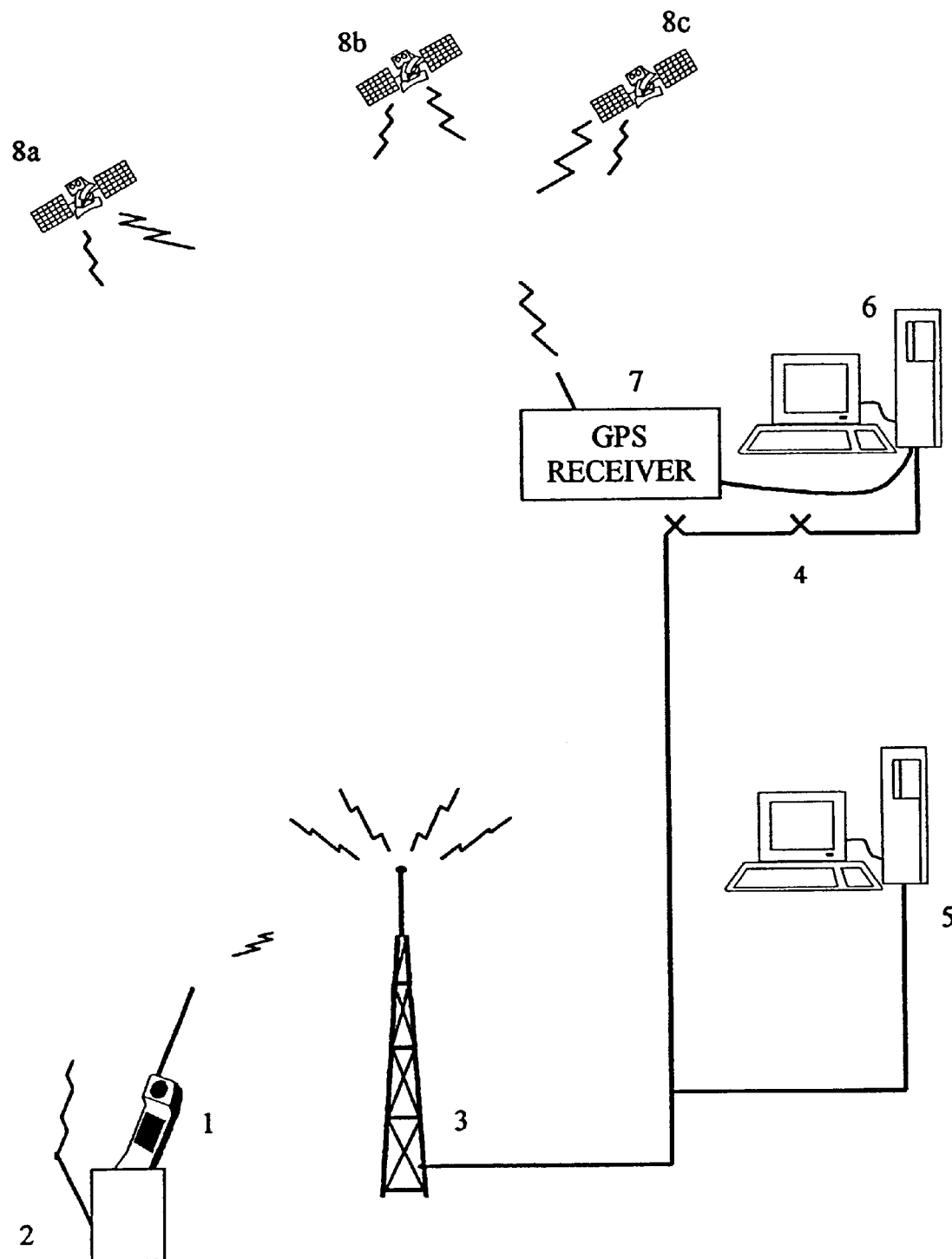


FIG. 1

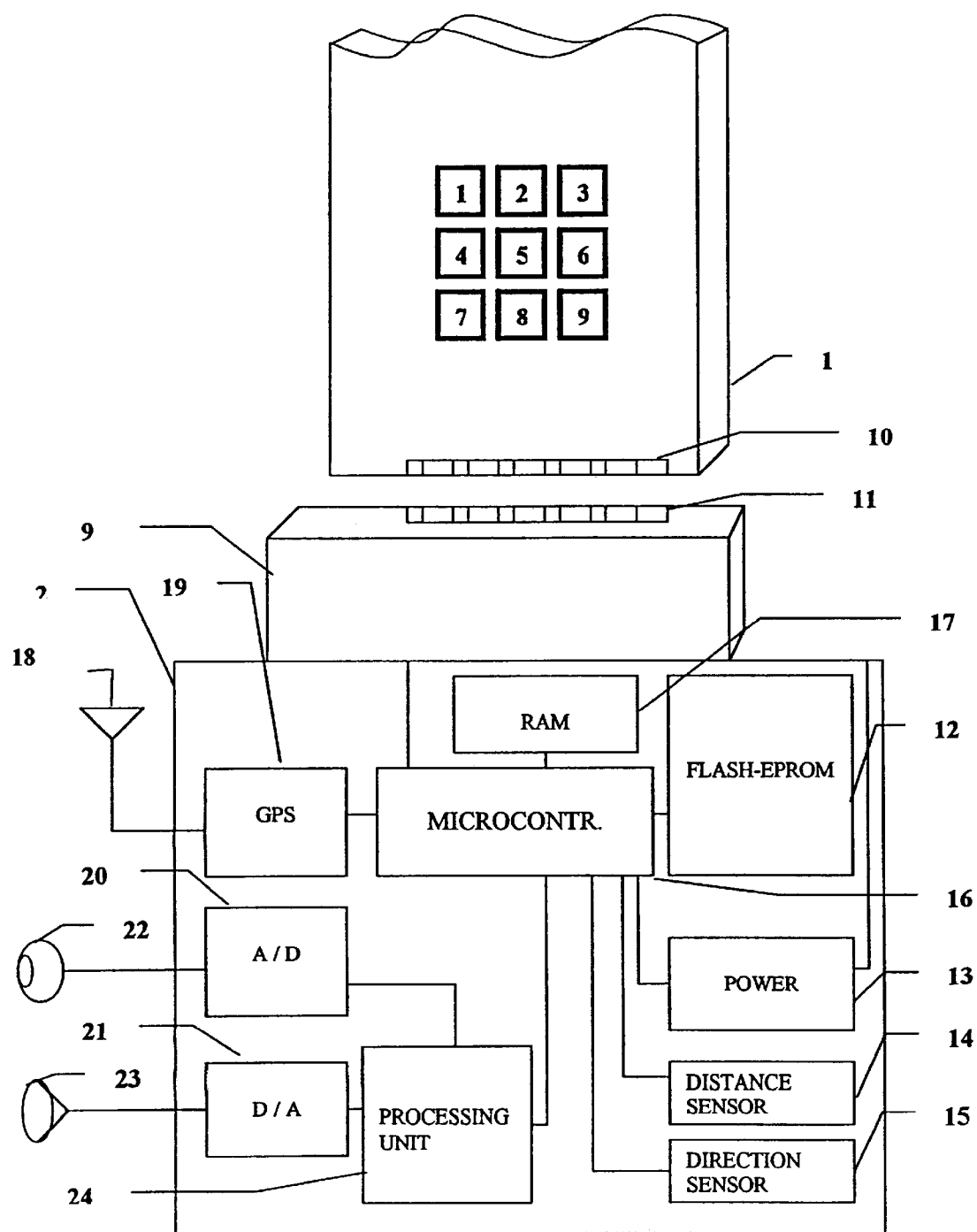


FIG. 2

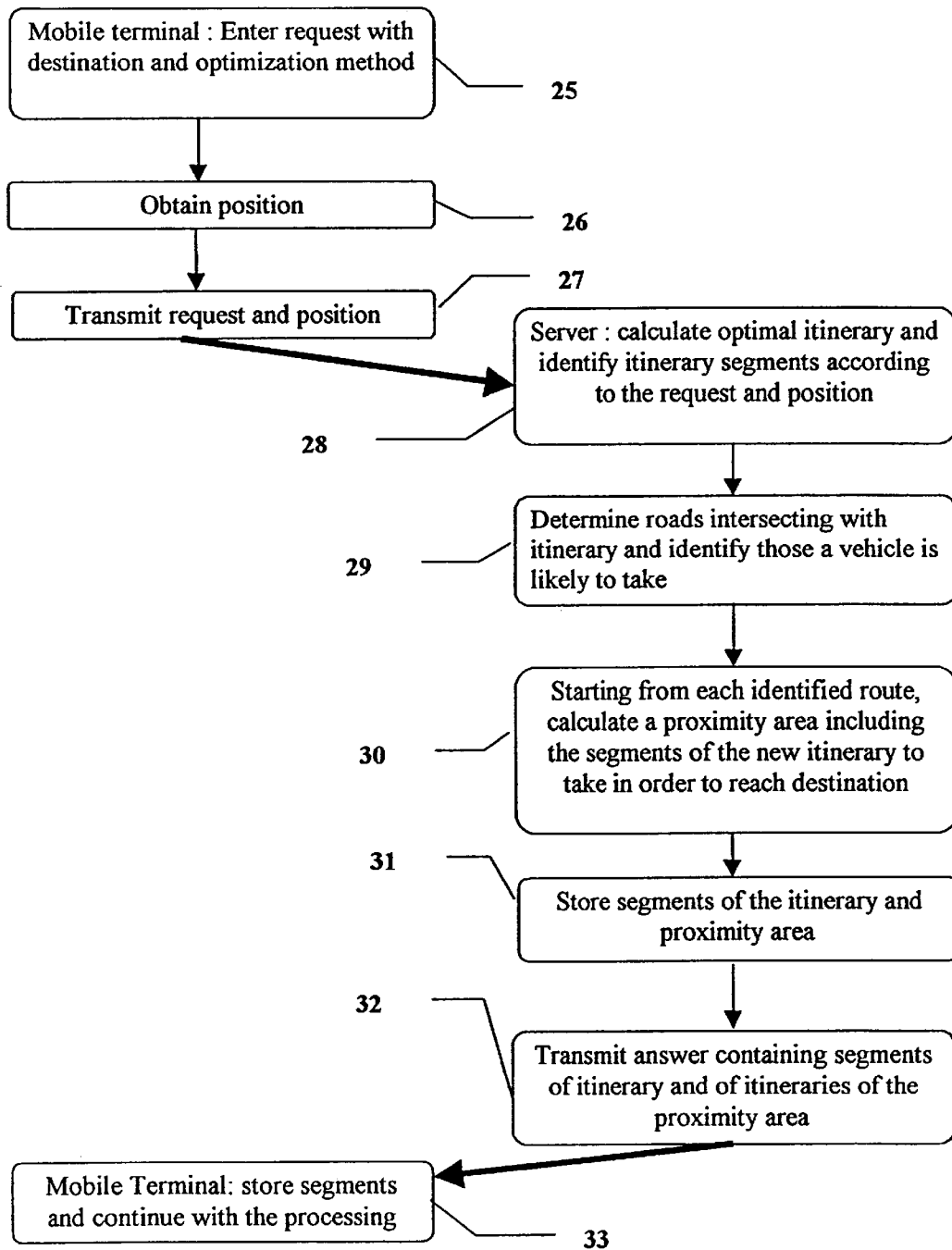


FIG. 3

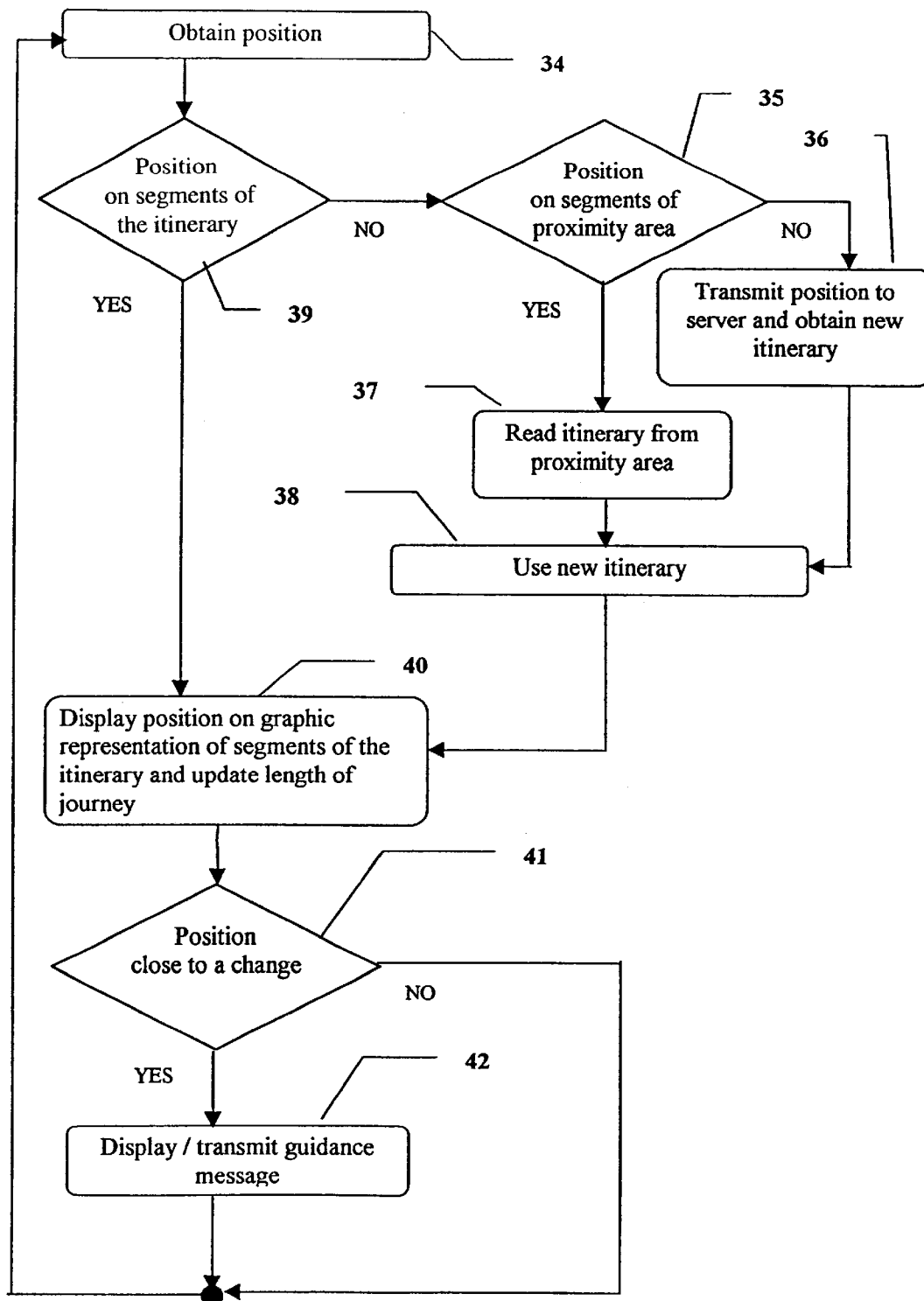


FIG. 4

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