

ABSTRACT

VEHICLE NAVIGATION SYSTEM AND METHOD

A remote consumer service center calculates traveling routes for a car and selects a geo area that covers the traveling routes. The geo area is defined by two boundary points, and divided by a pair of 2D grid number into multiple geo zones each respectively defined with a pair of 2D index. The remote consumer service center sends the boundary points, the pair of 2D grid number, and multiple pairs of 2D indexes of traveling zones corresponding to the traveling routes to an On-Board Unit of the car wirelessly. The On-Board Unit rebuilds a 2D grillwork according to the boundary points and the pair of 2D grid number, and then displays on a display together with multiple traveling grids and a current grid, enabling the driver to find the forward direction himself. The remote consumer service center can synchronously display a monitoring 2D grillwork to guide the car moving.

(Fig. 10)