ABSTRACT

The present application provides a vehicle control method, apparatus and vehicle based on detection of a port vertical transport target. The method is applied to a vehicle. First point cloud data of a region above the vehicle is acquired, then target position information and target grabbing state of a spreader in a lifting device are determined from a pre-determined point cloud mapping relationship according to the first point cloud data, where the point cloud mapping relationship records point cloud data corresponding to different position information and different grabbing states of the spreader, and then a moving and stopping state of the vehicle is controlled according to the target position information and the target grabbing state. In this technical solution, the point cloud data of the region above is acquired by the vehicle, and then compared with the point cloud data corresponding to pre-determined possible spreader positions and grabbing states, to determine the current spreader position and grabbing state of a region above the vehicle, thereby controlling the starting and stopping of the vehicle, to avoid dangerous operations of the vehicle caused by manual intervention.

[FIG. 1]