

ABSTRACT

A guided vehicle transportation system is provided with which toppling down of the vehicle is prevented even when strong lateral external force exerts on the vehicle. The fail-safe mechanism of the system is composed such that a guard rail 31 having a flange 34 extending horizontally at the upper part of each of its vertical guide surfaces for guiding guard wheels 22, 23 provided to the vehicle is laid down on a guide track 3 (depression 10) along the center line thereof, the vehicle is provided with automatic steering mechanisms 09 and actuators 06 for steering front and rear traveling wheels, and said guard wheels are provided to the vehicle rotatable in a lateral plane and received in the groove of the guard rail 31. A subsidiary guard wheel 33, which is smaller in diameter than that of the guard wheel 22(23), is provided thereon to be rotatable together with the guard wheel 22(23). When the vehicle is moved laterally by strong lateral external force due to a gust of cross wind, the subsidiary guard wheel 33 comes under the flange 34 of the guard rail 31 and heeling over and toppling down of the vehicle can be prevented.