

ABSTRACT

TRANSPORTATION VEHICLE SYSTEM AND CHARGING METHOD FOR THE
TRANSPORTATION VEHICLE SYSTEM

A plurality of transportation vehicles travel along a predetermined travel route under control of a ground controller. Each of the traveling vehicles is configured to travel using an energy storage member as a power supply. A charging area having charging equipment for charging the energy storage member of the transportation vehicle is provided in the travel route. Each of the transportation vehicles reports a position and remaining capacity of the energy storage member to the ground controller. The ground controller controls a transportation vehicle having remaining capacity of a threshold value or less to travel to the charging area for charging the energy storage member. Further, the ground controller controls transportation vehicles in the charging area to travel to positions outside the charging area in accordance with transportation requests.

Selected figure: FIG. 4