Claims

[Claim 1]

A transportation system comprising:

a vehicle; and

a track having a traveling road surface on which the vehicle travels and guide parts which extend on both sides in a width direction of the traveling road surface,

wherein the track has

a first section in which the vehicle is guided by the guide parts and travels on the track, and

a second section in which the vehicle travels on the track by the steering of the vehicle.

[Claim 2]

The transportation system according to claim 1,

wherein the vehicle has

a vehicle body,

running wheels which are attached to a lower portion of the vehicle body,

a steering mechanism which is able to steer the direction of the running wheels with respect to the vehicle body,

a drive mechanism which includes an actuator and operates the steering mechanism by the driving of the actuator to steer the direction of the running wheels, and

a guide mechanism which includes guided parts provided on both sides in the width direction of the vehicle body and guided by the guide parts, and causes the steering mechanism to steer the direction of the running wheels in accordance with the positions in the width direction of the guided parts.

[Claim 3]

The transportation system according to claim 2, further comprising:

a steering control switching control unit which controls the driving of the drive mechanism in the first section, which is set in advance in the track and in which the steering mechanism is controlled by the drive mechanism, and stops the driving by the drive mechanism in the second section, which is set in advance in the track and in which the steering mechanism is controlled by the guide mechanism.

[Claim 4]

The transportation system according to claim 2 or 3,

wherein the guide mechanism of the vehicle has an auxiliary guided part which allows the steering mechanism to adjust the direction of the running wheels in accordance with the positions in the width direction, and

the track is provided such that the guide parts are at a distance equal to or greater than a preset gap from

the guided parts of the vehicle, and has an auxiliary guide part which guides the auxiliary guided part, and a gap between the auxiliary guide part and the auxiliary guided part is set to be smaller than the gap between the guide parts and the guided parts.

[Claim 5]

The transportation system according to any one of claims 2 to 4,

wherein the distance between the guided parts is changeable.

[Claim 6]

The transportation system according to any one of claims 2 to 5,

wherein the distance between the guide parts differs in the first section and the second section.

Claims

1. A transportation system comprising:

a vehicle; and

a track having a traveling road surface on which the vehicle travels and guide parts which extend on both sides in a width direction of the traveling road surface,

wherein the track has

a first section in which the vehicle is guided by the guide parts and travels on the track, and

a second section in which the vehicle travels on the track by the steering of the vehicle,

wherein the vehicle has

a vehicle body,

running wheels which are attached to a lower portion of the vehicle body,

a steering mechanism which is able to steer the direction of the running wheels with respect to the vehicle body,

a drive mechanism which includes an actuator and operates the steering mechanism by the driving of the actuator to steer the direction of the running wheels, and

a guide mechanism which includes guided parts provided on both sides in the width direction of the vehicle body and guided by the guide parts, and causes the steering mechanism to steer the direction of the running wheels in accordance with the positions in the width direction of the guided parts,

wherein the guide mechanism of the vehicle has an auxiliary guided part which allows the steering mechanism to adjust the direction of the running wheels in accordance with the positions in the width direction, and

the track is provided such that the guide parts are at a distance equal to or greater than a preset gap from the guided parts of the vehicle, and has an auxiliary guide part which guides the auxiliary guided part, and a gap between the auxiliary guide part and the

auxiliary guided part is set to be smaller than the gap between the guide parts and the guided parts.

2. The transportation system according to claim 1, further comprising:

a steering control switching control unit which controls the driving of the drive mechanism in the second section, which is set in advance in the track and in which the steering mechanism is controlled by the drive mechanism, and stops the driving by the drive mechanism in the first section, which is set in advance in the track and in which the steering mechanism is controlled by the guide mechanism.

3. The transportation system according to claim 1 or 2,

wherein the distance between the guided parts is changeable.

4. The transportation system according to any one of claims 1 to 3,

wherein the distance between the guide parts differs in the first section and the second section.