[CLAIMS]

[Claim 1]

A traveling bogie that is guided by a guide rail installed along a track to travel, the traveling bogie comprising:

a steerable wheel;

a bogie main body configured to support the steerable wheel;

a guide apparatus that is pivotally supported by the bogie main body and turned by receiving a reaction force from the guide rail;

a steering mechanism configured to apply a steering force to the steerable wheel using the reaction force received by the guide apparatus; and

an assist mechanism configured to apply an auxiliary steering force for assisting with the steering force from the steering mechanism to the steerable wheel.

[Claim 2]

The traveling bogie according to claim 1, wherein the assist mechanism comprises:

an actuator configured to generate the auxiliary steering force;

a detection unit configured to detect a state of the guide apparatus; and

a control unit configured to control an operation of the actuator according to a detection result of the detection unit.

[Claim 3]

The traveling bogie according to claim 2, wherein the actuator is attached to the bogie main body.

[Claim 4]

The traveling bogie according to claim 2 or 3, wherein a pair of steerable wheels are provided separated by an interval in a vehicle width direction, and

a pair of actuators are individually provided with respect to the pair of steerable wheels.

[Claim 5]

A track-type vehicle comprising:

the traveling bogie according to any one of claims 1 to 4; and

a vehicle body supported by the traveling bogie.

[CLAIMS]

[Claim 1]

A traveling bogie that is guided by a guide rail installed along a track to travel, the traveling bogie comprising:

a steerable wheel;

a bogie main body configured to support the steerable wheel;

a guide apparatus that is pivotally supported by the bogie main body and turned by receiving a reaction force from the guide rail;

a steering mechanism configured to apply a steering force to the steerable wheel using the reaction force received by the guide apparatus; and

an assist mechanism configured to apply an auxiliary steering force for assisting with the steering force from the steering mechanism to the steerable wheel,

wherein the assist mechanism comprises:

an actuator configured to generate the auxiliary steering force;

a detection unit configured to detect a state of the guide apparatus; and

a control unit configured to control an operation of the actuator according to a detection result of the detection unit.

[Claim 2]

The traveling bogie according to claim 1, wherein the actuator is attached to the bogie main body.

[Claim 3]

The traveling bogie according to claim 1 or 2, wherein a pair of steerable wheels are provided separated by an interval in a vehicle width direction, and

a pair of actuators are individually provided with respect to the pair of steerable wheels.

[Claim 4]

A track-type vehicle comprising:

the traveling bogie according to any one of claims 1 to 3; and

a vehicle body supported by the traveling bogie.