CLAIMS

1. A guide track for a track-based vehicle that guides the track-based vehicle to follow a predetermined traveling course by causing a pair of guide wheels provided in the track-based vehicle to roll, the guide track comprising:

a track main body having a guide groove opened upward in which the pair of guide wheels inserted, and is formed with a pair of guide surfaces for causing each of the pair of guide wheels to roll at both sides of the traveling course in a width direction;

an electric cable that is placed on at least one side of the outside of the traveling course in the width direction with respect to the guide groove to perform contact electricity supply by pressing a power collection shoe of a power collector of the track-based vehicle;

a support portion that is formed of an insulation material and supports the conductor rail with respect to the track main body portion; and

a protection member serving as an insulation material that is provided at least on both sides in the width direction or the upper part of the vertical direction of the conductor rail, and is provided in parallel to the conductor rail and in parallel to a pressing direction of the power collection shoe so as to prevent a short circuit due to contact with the conductor rail in the width direction or the vertical direction.

2. The guide track for a track-based vehicle according to claim 1, wherein the support portion includes an accommodation concave portion capable of accommodating the conductor rail, and the accommodation concave portion also forms the protection member.

3. The guide track for a track-based vehicle according to claim 2, wherein the conductor rail has one of a groove or a convex portion engaged with each other that extends in a front and back direction along the traveling course, and

the support portion has the other of the groove or the convex portion provided on an inner surface that forms the accommodation concave portion.

4. A transportation system comprising:

the guide track for a track-based vehicle according to any one of claims 1 to 3; and

the track-based vehicle that is guided by the guide track and runs.

5. The transportation system according to claim 4, wherein a separation interval of the pair of guide surfaces of the guide track is set to be smaller than the sum of diameters of the pair of guide wheels, and

the pair of guide wheels for a track-based vehicle are provided so that positions thereof in the front and back direction along the traveling course are different from each other.

CLAIMS

[Claim 1]

A guide track for a track-based vehicle that guides the track-based vehicle to follow a predetermined traveling course by causing a pair of guide wheels provided in the track-based vehicle to roll, the guide track comprising:

a track main body having a guide groove opened upward in which the pair of guide wheels inserted, and is formed with a pair of guide surfaces for causing each of the pair of guide wheels to roll at both sides of the traveling course in a width direction;

a conductor rail that is placed on at least one side of the outside of the traveling course in the width direction with respect to the guide groove to perform contact electricity supply by pressing a power collection shoe of a power collector of the track-based vehicle;

a support portion that is formed of an insulation material and supports the conductor rail with respect to the track main body portion; and

a protection member serving as an insulation material that is provided at least on both sides in the width direction or the upper part of the vertical direction of the conductor rail, and is provided in parallel to the conductor rail and in parallel to a pressing direction of the power collection shoe so as to prevent a short circuit due to contact with the conductor rail in the width direction or the vertical direction.

[Claim 2]

The guide track for a track-based vehicle according to claim 1, wherein the support portion includes an accommodation concave portion capable of accommodating the conductor rail, and the accommodation concave portion also forms the protection member.

[Claim 3]

The guide track for a track-based vehicle according to claim 2, wherein the conductor rail has one of a groove or a convex portion engaged with each other that extends in a front and back direction along the traveling course, and

the support portion has the other of the groove or the convex portion provided on an inner surface that forms the accommodation concave portion.

[Claim 4]

A transportation system comprising:

the guide track for a track-based vehicle according to any one of claims 1 to 3; and

the track-based vehicle that is guided by the guide track and runs.

[Claim 5]

The transportation system according to claim 4, wherein a separation interval of the pair of guide surfaces of the guide track is set to be smaller than the sum of diameters of the pair of guide wheels, and

the pair of guide wheels for a track-based vehicle are provided so that positions thereof in the front and back direction along the traveling course are different from each other.