CLAIMS

1. An overhead transport vehicle comprising a lifting unit, a plurality of suspending members and a traveling part, wherein the overhead transport vehicle is configured to cause the lifting unit including a gripping part configured to grasp an article to be lifted and lowered, by the plurality of suspending members, with respect to the traveling part configured to travel along a track;

wherein the overhead transport vehicle is configured to further comprise:

a winding drum configured to be driven by one winding drive unit, and to cause the lifting unit to be lifted and lowered by winding and paying out the suspending members;

at least one guide roller around which the suspending member paid out from the winding drum is wound;

a body frame provided on the traveling part, and configured to support the winding drum and the guide roller; and

an actuator configured to move a position of the at least one guide roller so that a connecting portion of the suspending member to the lifting unit moves in a lifting direction.

2. The overhead transport vehicle according to claim 1, wherein

the suspending members are configured to suspend three points of the lifting unit, and

the actuator moves the position of the guide roller around which the suspending members suspending two points of the three points are wound.

3. The overhead transport vehicle according to claim 2, wherein

the lifting unit is suspended by the four suspending members via connection members,

two of the four suspending members are connected to one swing part configured to be swingable with respect to the lifting unit, and

the remaining two of the four suspending members are respectively connected to the lifting unit.

4. The overhead transport vehicle according to any one of claims 1 to 3, further comprising:

a horizontal movement part configured to cause the lifting unit to move in a horizontal direction; and

a first control unit configured to control a movement amount of the guide roller moved by the actuator based on a distortion amount of the horizontal movement part at the time when the lifting unit is moved by the horizontal movement part.

5. The overhead transport vehicle according to any one of claims 1 to 4, further comprising:

an inclination detection unit configured to acquire an inclination of the lifting unit with respect to a horizontal direction; and

a second control unit configured to control the actuator so that the inclination acquired by the inclination detection unit becomes a predetermined value.

6. The overhead transport vehicle according to any one of claims 1 to 5, further comprising:

a storage unit configured to store an inclination of each transfer part which delivers/receives the article to/from the overhead transport vehicle; and

a third control unit configured to control the actuator so that an inclination of the lifting unit becomes substantially the same as the inclination of the transfer part on which the article is going to be placed.