of a plurality of wire ropes. In the case of cleaning the main rope with the above-described rope cleaning jig, the member is to be rotated about the axis of each wire rope of the main rope.

However, when the members are rotated about the axes of the respective wire ropes, there are some cases where the rotation causes the wire ropes to sway abnormally and become tangled with each other.

SUMMARY

According to one embodiment, an elevator rope cleaning jig includes a pair of stages, a plurality of rotational members and a pair of rollers. The pair of stages is provided to sandwich a plurality of to-be-cleaned wire ropes all together from both sides of the plurality of wire ropes. The plurality of rotational members respectively include holes allowing the respective wire ropes to pass through and rotate in contact with the pair of stages when the wire ropes pass through the holes. The pair of rollers is attached to the pair of stages as located below the rotational members, which is sandwich the wire ropes to

suppress swaying of the wire ropes having passed through the holes of the rotational members and rotate in contact with the wire ropes.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is an explanatory diagram showing an example of the installation position of an elevator rope cleaning jig of an embodiment.

FIG. 2 is a perspective diagram showing an example of the structure of the rope cleaning jig.

FIG. 3 is an explanatory diagram showing an example of the structure of a rotational member.

FIG. 4 is a diagram showing an example of the relationship between the rotational member and a spatula member.

FIG. 5 is a sectional view of the rope cleaning jig.

FIG. 6 is an explanatory diagram showing an example of the structures of sway suppression rollers.

FIG. 7 is a diagram showing a state where a front jig and a rear jig are coupled together.

FIG. 8 is a diagram showing a state where the rope cleaning jig is installed on a machine beam.

FIG. 9 is a diagram showing a state where the wire ropes having passed through the rope cleaning jig are swaying.

FIG. 10 is a diagram showing a state where the swaying of the wire ropes is suppressed by the sway suppression rollers.

FIG. 11 is a diagram showing a state where a scattering prevention member is attached to the upper portions of the spatula members.

FIG. 12 is an explanatory diagram showing a rope

WHAT IS CLAIMED IS:

1. An elevator rope cleaning jig comprising:

a pair of stages configured to sandwich a plurality of to-be-cleaned wire ropes all together from both sides of the plurality of wire ropes;

a plurality of rotational members respectively comprising holes allowing the respective wire ropes to pass through and configured to rotate in contact with the pair of stages when the wire ropes pass through the holes; and

a pair of rollers attached to the pair of stages as located below the rotational members, which is configured to sandwich the wire ropes to suppress swaying of the wire ropes having passed through the holes of the rotational members and rotate in contact with the wire ropes.

2. The elevator rope cleaning jig of Claim 1, wherein the pair of rollers comprises a plurality of grooves for sandwiching the wire ropes.

3. The elevator rope cleaning jig of Claim 2, wherein the pair of rollers is provided at different levels of the pair of stages.

4. The elevator rope cleaning jig of Claim 1, wherein

the holes of the rotational members are respectively configured to conform to uneven outer peripheries of the wire ropes, and

the rotational members are configured to scrape off grease stuck in the wire ropes while rotating when the wire ropes pass through the holes of the rotational members.

5. The elevator rope cleaning jig of Claim 4, further comprising:

a spatula member configured to remove the grease scraped off by the rotational members from the rotational members; and

a grease collection member configured to collect the grease removed by the spatula member.

6. The elevator rope cleaning jig of Claim 5, further comprising a scattering prevention member attached to the spatula members and configured to prevent the grease scraped off by the rotational members from scattering.