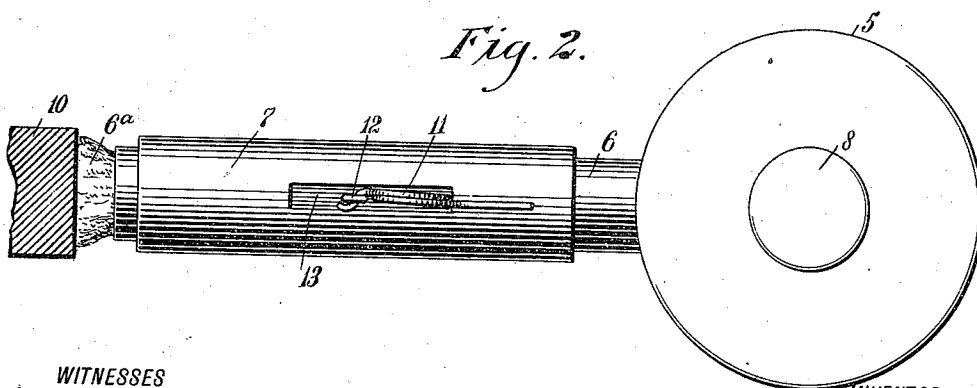
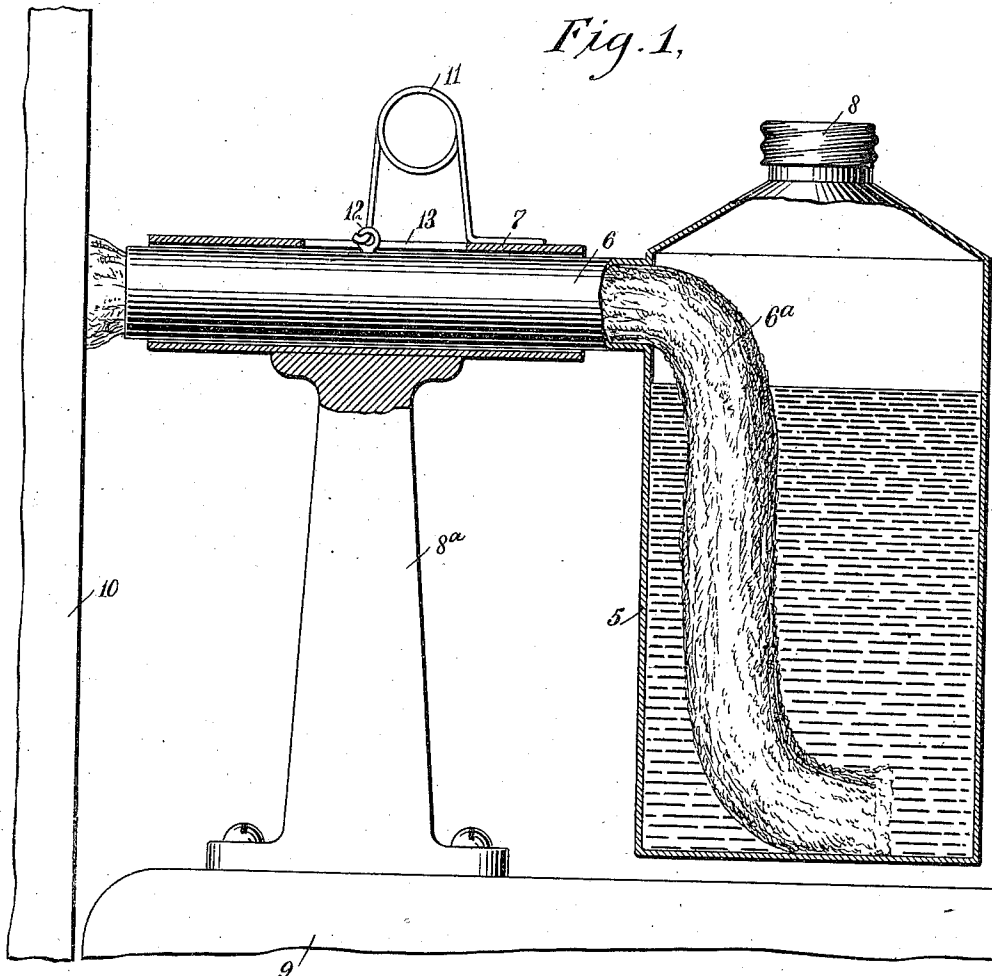


C. V. WARREN.
LUBRICATOR FOR ELEVATOR GUIDES.
APPLICATION FILED DEC. 23, 1909.

974,616.

Patented Nov. 1, 1910.



WITNESSES

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CHARLES VALENTYNE WARREN, OF CAMBRIDGE, MASSACHUSETTS.

LUBRICATOR FOR ELEVATOR-GUIDES.

974,616.

Specification of Letters Patent.

Patented Nov. 1, 1910.

Application filed December 23, 1909. Serial No. 534,608.

To all whom it may concern:

Be it known that I, CHARLES V. WARREN, a citizen of the United States, and a resident of Cambridge, in the county of Middlesex and State of Massachusetts, have invented a new and Improved Lubricator for Elevator-Guides, of which the following is a full, clear, and exact description.

The invention is an improvement in lubricators for elevator and similar guides, and has in view such a device which will feed the oil economically, yet keep the guide sufficiently and substantially uniformly lubricated, the lubricant being prevented from otherwise wasting, as by slopping or by spattering over the top of the cup. To this end I provide a lubricant cup having a wick tube leading therefrom, the cup being otherwise normally closed, with the discharge end of the tube arranged above the oil level in the cup, a guide in which the tube is slidably arranged, and means yieldingly forcing the cup and tube in a direction to press the wick against the elevator guide, the arrangement of the cup being such as not to interfere with the movement of the tube in the guide in either direction.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in both the views.

Figure 1 is a side elevation, partly in central vertical section, of a lubricator embodying my invention as applied to an elevator; and Fig. 2 is a plan of the lubricator, showing the elevator guide in section.

A lubricant cup or tank 5 of suitable capacity is provided with a laterally-extending wick tube 6, the tube being preferably connected to the upper portion of the cup above the oil level, it being essential that the discharge end of the tube stand above this level in order that the oil will flow out only through the capillary action of the wick 6^a, the wick being preferably of cotton, as I have found a wick of this character to give the best results, since it does not become glazed and cut off the flow of oil, as does a wick of felt or similar material. The top of the cup is provided with a filling-plug 8, which is screwed to place when the lubricator is in use, thus giving no opportunity for the oil to slop over. The wick tube 6 is rigid with the cup and is slidably arranged in a guide tube 7, the latter being

carried on a suitable support 8^a which is attached to the car 9, ordinarily at the top, with the guide tube a short distance from the elevator guide 10, and located approximately horizontally in a plane therewith. The cup and wick tube are yieldingly pressed to the guide to keep the wick well in contact with the inner face of the latter, by a spring 11, this spring being preferably applied by connecting one end to the wick tube 6, as through an eye 12, and the opposite end to the guide tube 7, the eye being suitably attached to the wick tube and passing through a slot 13 formed longitudinally in the guide tube and serving to prevent the rotation of the cup, with the wick tube as an axis. This manner of constructing the lubricator places the oil cup at a substantial distance from the discharge end of the wick and insures the economical use of the lubricant, no substantial feeding of the latter taking place when the car is at rest.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. A lubricator for elevator guides, comprising a lubricant cup having a wick tube extending therefrom, a tubular guide carried by the elevator car, in which the wick tube is slidably arranged, an eye attached to the wick tube and extending through a slot formed in the guide tube, and a spring having one end attached to the guide tube and its opposite end engaged in the eye.

2. A lubricator for elevator guides, comprising a lubricant cup having a wick tube, the wick tube discharging laterally from the cup, a wick extending through the tube from the cup and feeding the lubricant from the cup by capillary action, a guide carried by the elevator car, on which the wick tube is slidably arranged to move to and from the elevator guide, and a spring arranged to hold the outer end of the tube operatively to the elevator guide, with the cup and guide located when in operative position to permit of the sliding movement of the tube in either direction.

3. A lubricator for elevator guides, comprising a wick tube, a guide carried by the elevator car, on which the wick tube is slidably supported to move to and from the elevator guide, a lubricant cup supported on the wick tube and from which the wick tube laterally extends, and a spring to hold the outer end of the tube operatively to the ele-

vator guide, having one end connected to the guide and the other end engaged with the tube.

4. A lubricator for elevator guides, comprising a lubricant cup having a wick tube extending therefrom, a tubular guide carried by the elevator car, in which the wick tube is slidably arranged, and having a longitudinal slot, and a spring retaining the
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10 outer end of the tube operatively to the ele-

vator guide, having one end fixed relatively to the guide and the other operatively engaged with the tube through the said slot.

In testimony whereof I have signed my name to this specification in the presence of 15 two subscribing witnesses.

CHARLES VALENTYNE WARREN.

Witnesses:

JOHN FOSTER,

W. RUSSELL CAZMAY.