No. 807,985. PATENTED DEC. 19, 1905.

R. ALDEN.

OILER.

APPLICATION FILED AUG. 11, 1904.

Fig. 1.

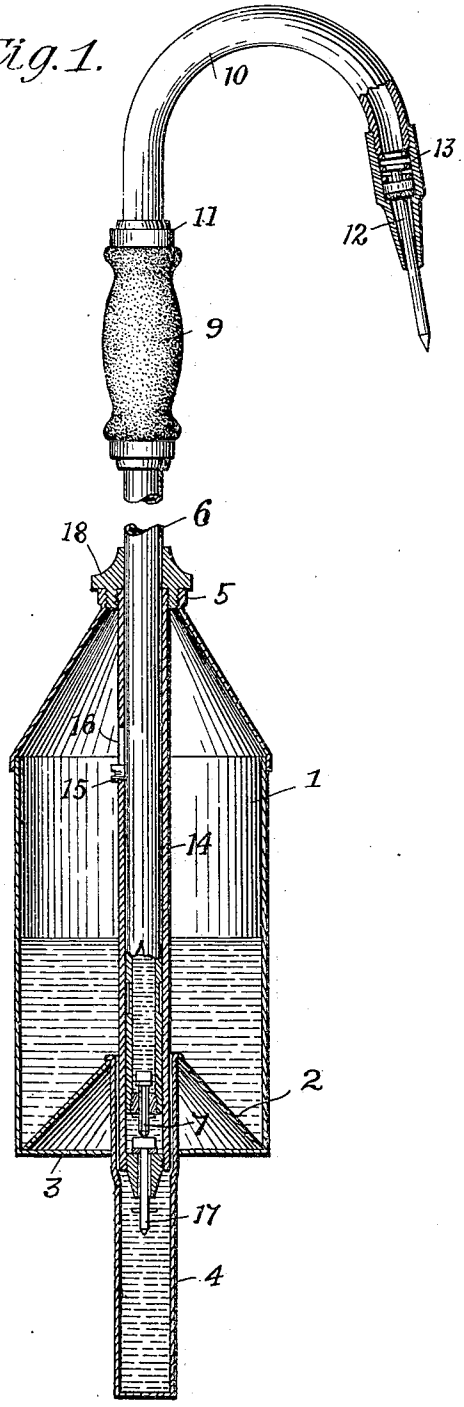
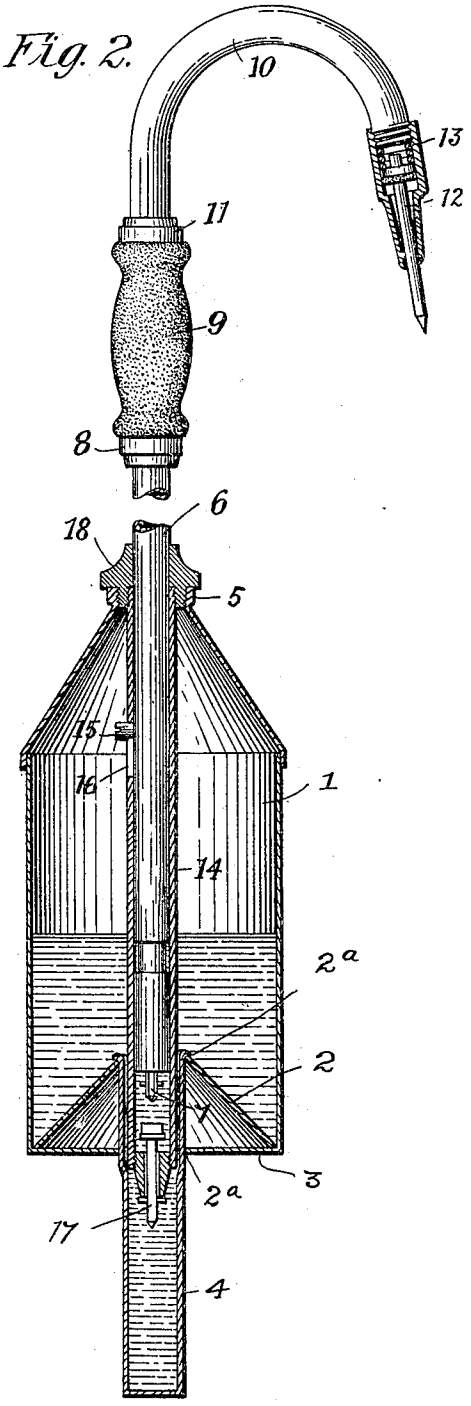


Fig. 2.



Witnesses:

Carl H. Schafer.

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By John L. Kindt. Atty.

UNITED STATES PATENT OFFICE.

RINALDO ALDEN, OF WAUKEGAN, ILLINOIS.

OILER.

No. 807,985. Specification of Letters Patent. Patented Dec. 19, 1905.

Application filed August 11, 1904. Serial No. 220,374.

To all whom it may concern:

Be it known that I, RINALDO ALDEN, a citizen of the United States, residing at Waukegan, in the county of Lake and State of Illinois, have invented certain new and useful Improvements in Oilers, of which the following is a specification.

The object of this invention is to provide an oiler which is so arranged that the journal-boxes of line and counter shafts, gearing, pulleys, and the like located overhead can be easily and conveniently oiled without the aid of a step-ladder.

The invention consists of the novel details of construction hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a vertical section of my improved oiler. Fig. 2 is a similar view with portions in elevation.

1 indicates the can, which may be of any suitable size and which is provided with the reinforced bottom 2. A circular opening 2^a extends through bottom 3 and reinforced bottom 2. One end of tube 4 is passed through circular opening 2^a and rigidly secured to bottom 3 and reinforced bottom 2. The upper end of tube 4 is slightly larger than tube 14, so that when tube 14 is in position in the can 1 oil will pass around said tube and into tube 4. A collar 5, provided with internal screw-threads, is rigidly secured to the upper portion of can 1.

6 indicates an intermediate tube, the lower end of which is provided with pin-valve 7. The upper portion of said tube is adapted to be secured to collar 8 on handle 9.

10 indicates the upper tube, which is formed substantially in the manner shown in the drawings. One end of this tube is secured to collar 11. This collar is secured to the upper portion of handle 9. That portion of tube 10 which is secured to collar 11 may be made any length desired. The opposite end of the tube 10 is provided with pin-valve 12. A spiral spring 13 normally holds pin-valve 12 in its closed position. The casing of pin-valve 12 is slightly larger than the valve-seat for the purpose of allowing oil to pass out around the valve when same is unseated. The lower portion of intermediate tube 6 is adapted to operate in lower tube 14. The up-and-down motion of intermediate tube 6 in lower tube 14 is limited by means of the screw 15, secured to tube 6, striking the ends in slot 16. The lower portion of tube 14 is provided with pin-valve 17.

18 indicates a collar which encircles intermediate tube 6. The lower portion of this collar is provided with internal screw-threads which engage the external screw-threads on the upper portion of lower tube 14. The lower portion of the collar is also provided with external screw-threads which are adapted to engage the internal screw-threads on the collar 5 on the can 1. The lower portion of tube 14 is adapted to extend through the can 1 and pass partly into the tube 4, which is slightly larger in circumference than tube 14, so as to allow a free flow of oil into tube 4. The upper end of tube 14 is secured to collar 18, and this collar is secured to collar 5 on the can 1. Thus tube 14 will be rigidly held in position in the can 1.

In operation when can 1 is pushed upward pin-valve 7 opens and allows oil to flow therethrough and pin-valve 17 closes, as clearly shown in Fig. 1 of the drawings. When the can 1 is pulled downward, pin-valve 7 closes and pin-valve 17 opens, as clearly shown in Fig. 2 of the drawings. Thus it will be readily apparent that when the pin-valve 12 is inserted into the oil-cup and pulled open the operation of moving the can 1 up and down will cause oil to be conveyed from the can to the oil-cup, thus lubricating the bearings.

Slight changes can of course be made in the general form and arrangements of the different parts described without departing from the spirit and scope of my invention. Hence I do not wish to be limited to the exact construction herein set forth; but,

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. An oiler, comprising a can, a lower tube adapted to be secured in said can by means of a collar, a pipe or tube rigidly secured to the bottom of the can, and adapted to receive the lower portion of the lower tube, a pin-valve secured in the lower end of said tube, an intermediate tube, the lower end of which operates in the lower tube, a pin-valve secured in the lower end of the intermediate tube, means for limiting the up-and-down motion of the intermediate tube, substantially as and for the purpose specified.

2. An oiler, comprising a can, a lower tube adapted to be secured in said can by means of a collar, a pipe or tube rigidly secured to the bottom of the can, and adapted to receive the lower portion of the lower tube, a pin-valve secured in the lower portion of said

tube, an intermediate tube, the lower portion of which operates in the lower tube, a pin-valve secured in the lower end of the intermediate tube, means for limiting the up-and-down movement of the intermediate tube, an upper tube, one end of wnich is curved or hooked, a pin-valve secured in the end of the curved or hooked portion of the upper tube, a spiral spring normally holding said pin-valve in its closed position, substantially as and for the purpose specified.

In testimony that I claim the foregoing as my invention I have signed my name in the presence of two subscribing witnesses.

RINALDO ALDEN.

Witnesses:

JAMES H. BIRMINGHAM,

K. SCHAFF.