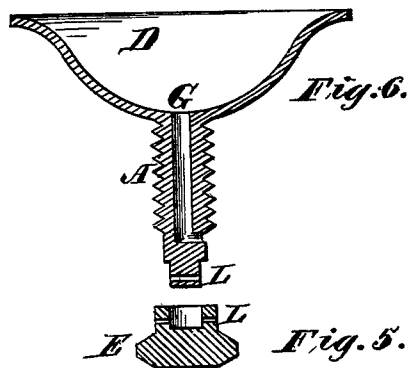
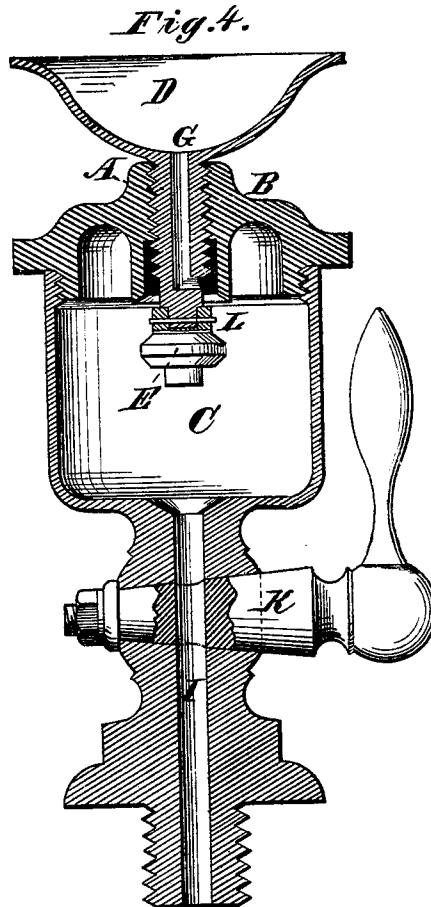
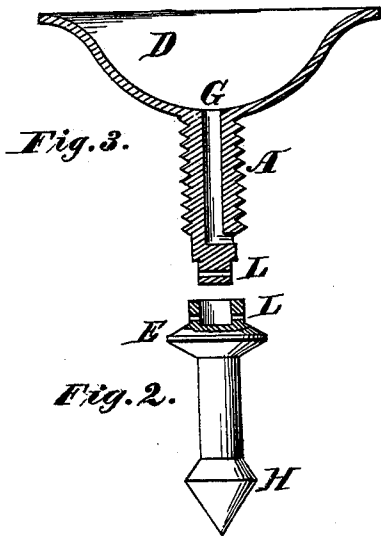
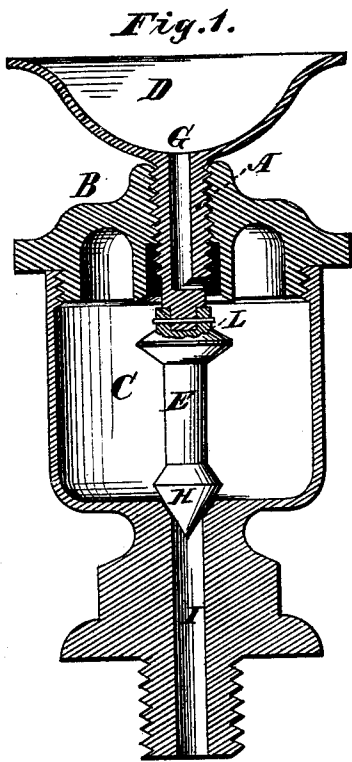


RICHARD W. DEELY.

Improvement in Lubricators for Steam-Engines.

No. 126,274.

Patented April 30, 1872.



Witnesses:
J. G. Zeller.
B. D. Cerauford.

Inventor:
Richard W. Deely.

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Fig. 10.

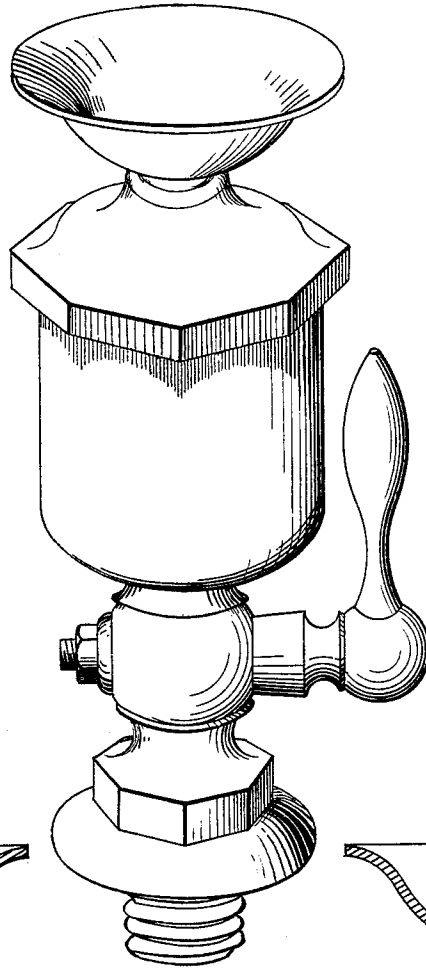


Fig. 7.

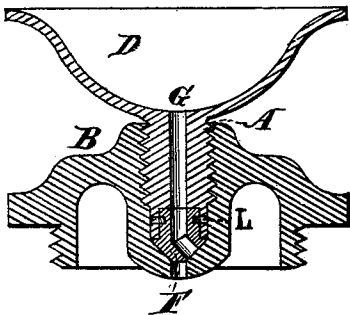


Fig. 9.

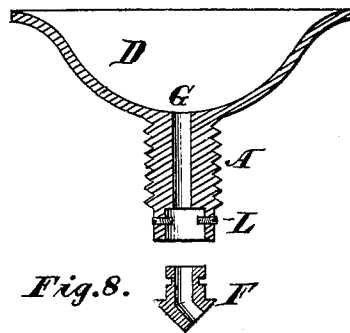


Fig. 8.



Witnesses:

J. G. Jeller.
B. M. Crauford.

Inventor:

Richard W. Deely.

UNITED STATES PATENT OFFICE.

RICHARD W. DEELY, OF RICHMOND, INDIANA, ASSIGNOR OF ONE-HALF OF HIS RIGHT TO ALMON SAMPSON, OF SAME PLACE.

IMPROVEMENT IN LUBRICATORS FOR STEAM-ENGINES.

Specification forming part of Letters Patent No. 126,274, dated April 30, 1872.

SPECIFICATION.

I, RICHARD W. DEELY, of Richmond, in the county of Wayne and State of Indiana, have invented certain Improvements in Oil or Tallow Cups, of which the following is a specification:

Nature and Object of Invention.

My invention relates to certain improvements in oil or tallow cups, in which, by the use of a hollow stem carrying a valve, I avoid the necessity of removing the top of the cup for filling it, at the same time I secure the greatest ease in the filling, thus avoiding entirely the unscrewing of the top, except for repairs or cleaning; thus making a cup superior, especially for use on steam-chests, where the whole cup must be steam-tight, and frequent removals of the top will very soon render the cup worthless on account of leakage. I also avoid the need of an air-cock, found in double-valve cups, as the air passes out around the hollow stem while the oil or tallow passes in through the same. I also secure by the hollow stem, carrying a valve, a simple method of stopping or graduating the flow of oil from the cup to the bearing. I also secure, by the cup on the top of the stem, a convenient method of melting tallow, when desired, by laying it on this cup, from which it flows as it melts into the main cup through the hollow stem.

Description of the Accompanying Drawing.

Figure 1 is a sectional view of an oil-cup in which a hollow stem carries a double valve for closing both the inlet and the outlet of the cup. Fig. 2 is a detached view of the double valve seen in Fig. 1. Fig. 3 is a detached view of the hollow stem seen in Fig. 1, which has a funnel-shaped top for convenience in rotating the stem and for conducting the oil into the opening to the main cup. Fig. 4 is a sectional view of an oil-cup in which the hollow stem carries a valve for closing from below the inlet to the main cup. Fig. 5 is a detached view of the valve seen in Fig. 4. Fig. 6 is a detached view of the hollow stem seen in Fig. 4. Fig. 7 is a sectional view of a top for the cup seen in Fig. 4, in which the valve with the hollow stem is so applied as to

close from above the inlet to the cup. Fig. 8 is a detached view of the valve seen in Fig. 7. Fig. 9 is a detached view of the stem seen in Fig. 7. Fig. 10 is a perspective drawing of the cup seen in Fig. 4.

General Description.

A is a hollow stem, passing into (as in Fig. 7) or through (as in Figs. 1 and 4) the top B of the main cup C. D is a cup-shaped top to the stem A, intended for convenience in rotating the stem, and to act as a funnel in filling the main cup. E is a valve, closing from below the inlet to the main cup. F is a valve, closing from above the inlet to the main cup. G is an opening through the stem, which passes into the main cup when the valve is open, either above the valve E, as in Figs. 1 and 4, or directly over the seat of the valve F, as seen in Fig. 7. H is a valve closing the outlet to the main cup. I is the outlet from the main cup to the bearing. In Fig. 4 this outlet is controlled by an ordinary plug-valve, K, which is not claimed as new. L is a pin to fasten valve to stem.

By rotating the stem A the valve E or F is opened, and, at the same time, in Fig. 1, the valve H is closed. The oil is then poured into the upper cup D, (or, if the cup be heated, as when on a steam-chest, a piece of tallow may be laid in the same to melt,) and flows through the opening G into the main cup C. By rotating the stem in the opposite direction the valve E or F is closed, and in Fig. 1 the valve H is opened.

In Fig. 4 the opening to the bearing is opened by the ordinary plug-valve K.

I claim as my invention—

1. A valve, F, attached to the hollow stem for closing from above the inlet to the main cup.
2. A valve, E, attached to the hollow stem for closing from below the inlet to the main cup.
3. A double valve, E H, attached to the hollow stem for closing both the inlet and the outlet of the main cup.

RICHARD W. DEELY.

Witnesses:

JOHN G. ZELLER,
B. F. CRAUFORD.