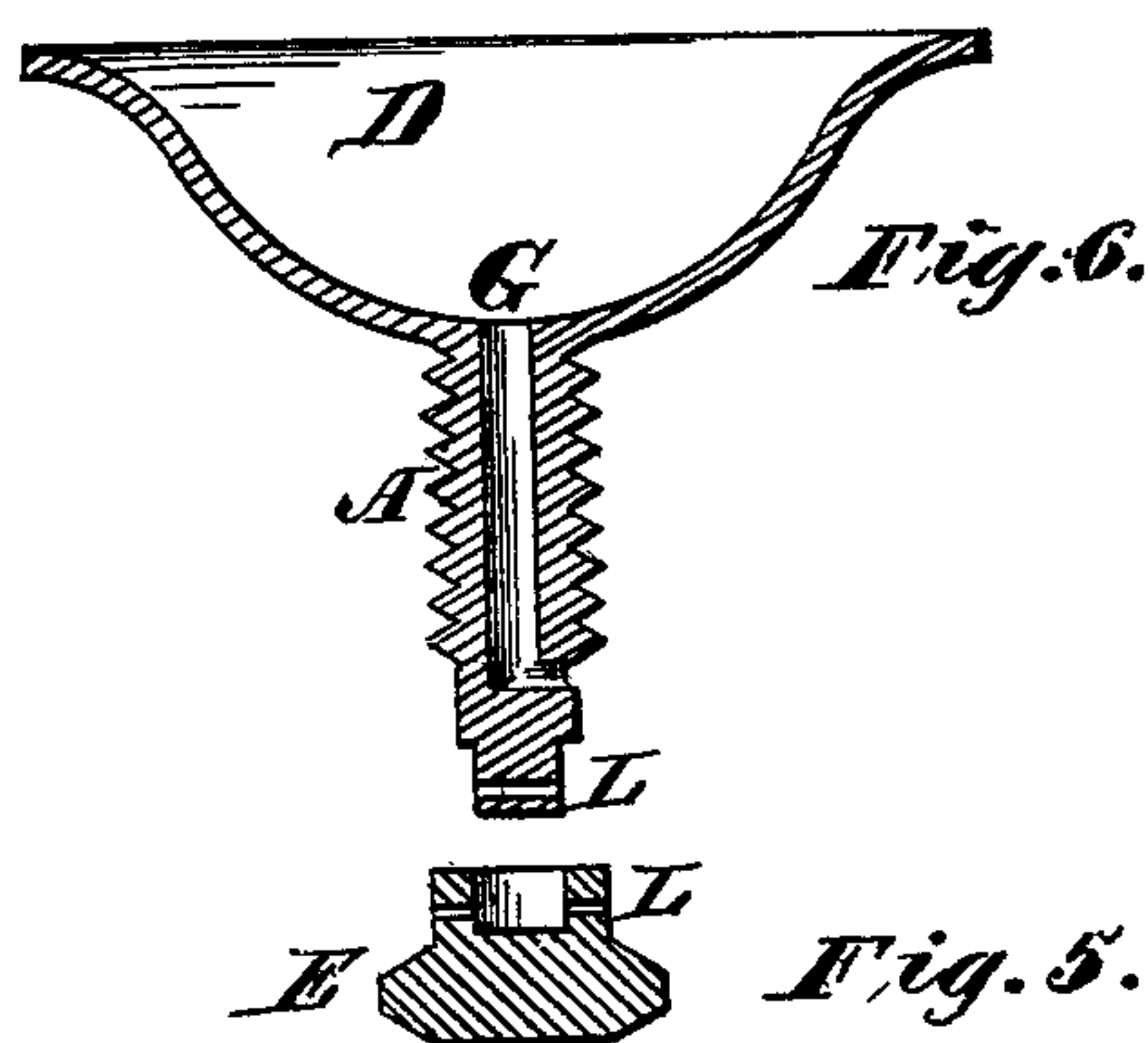
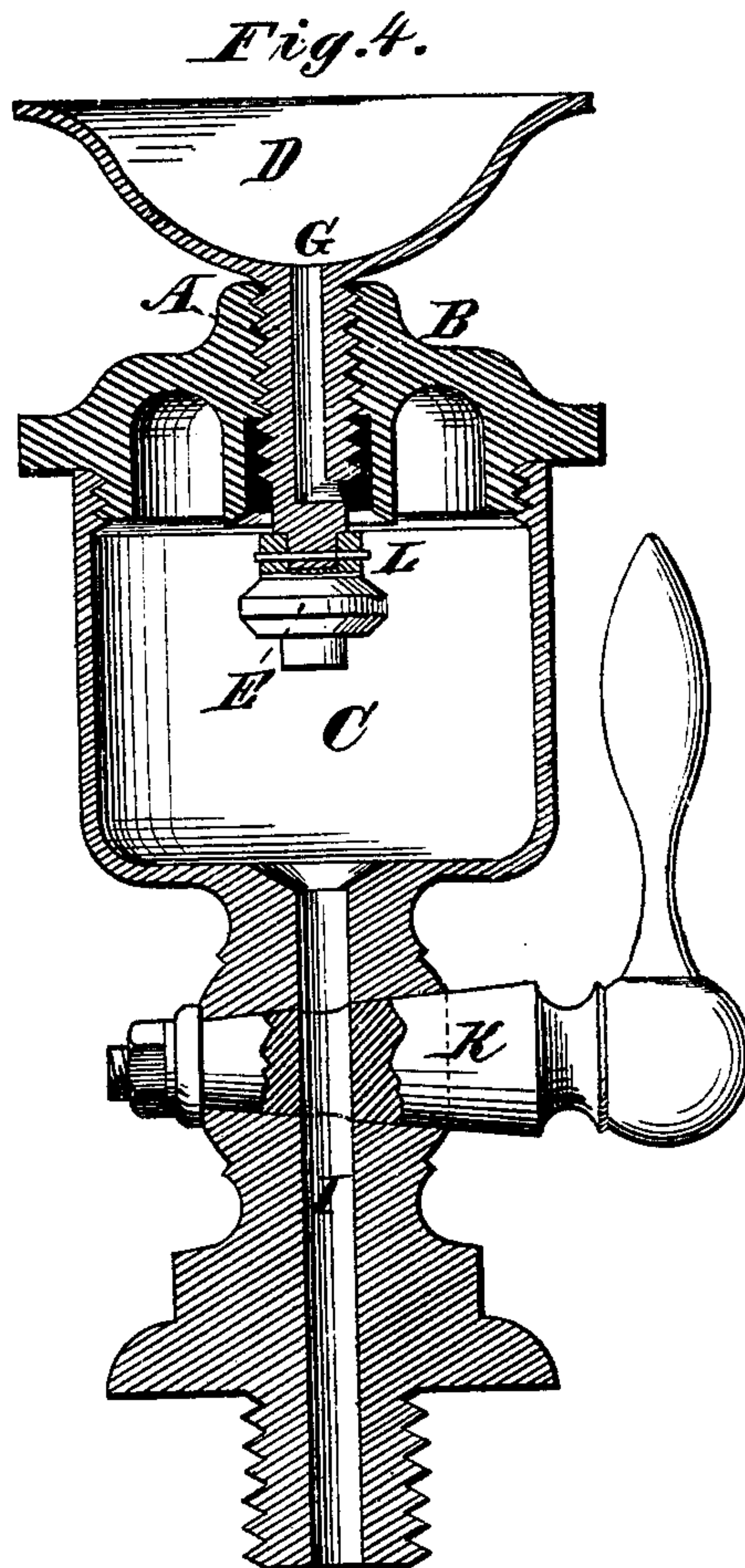
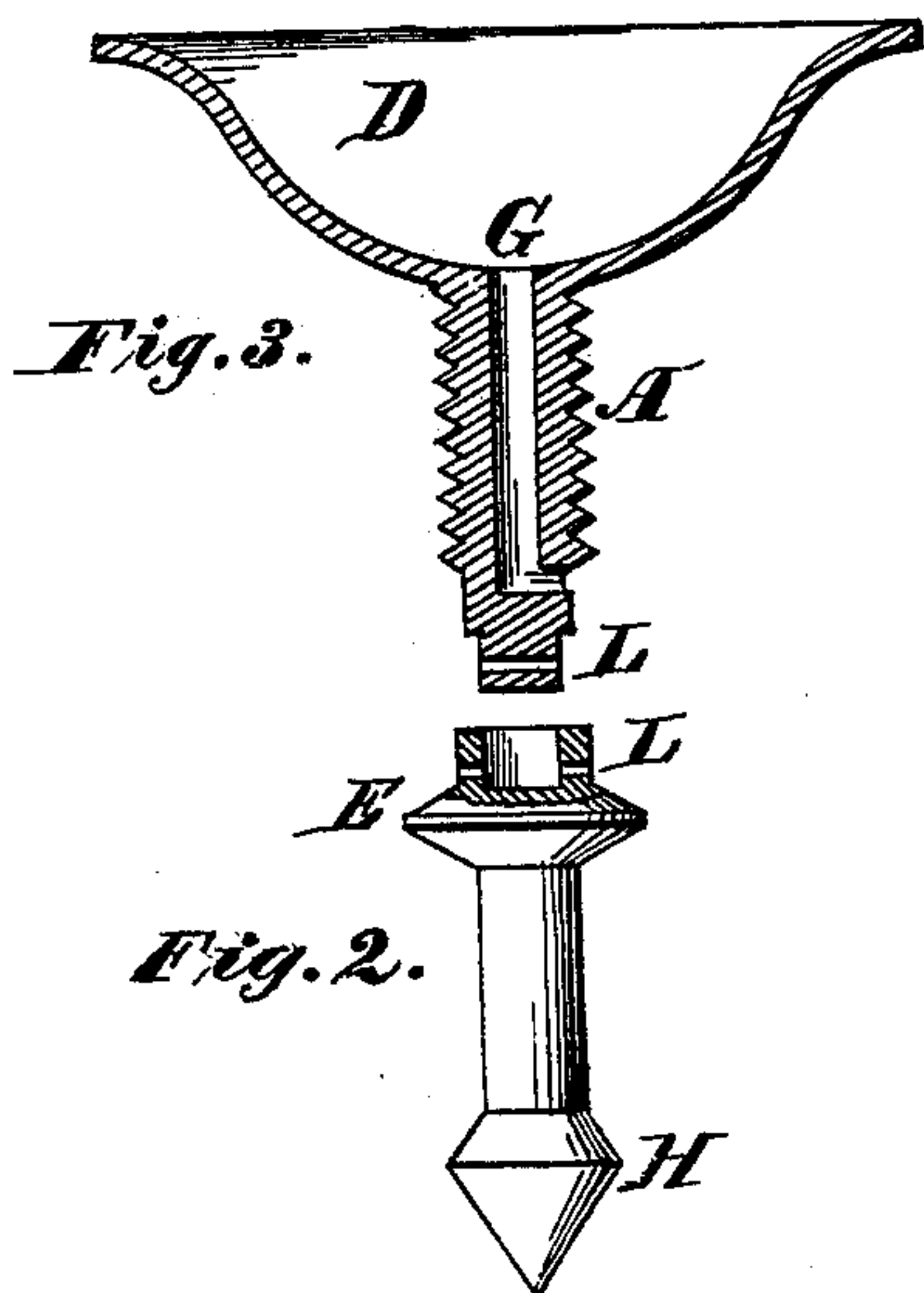
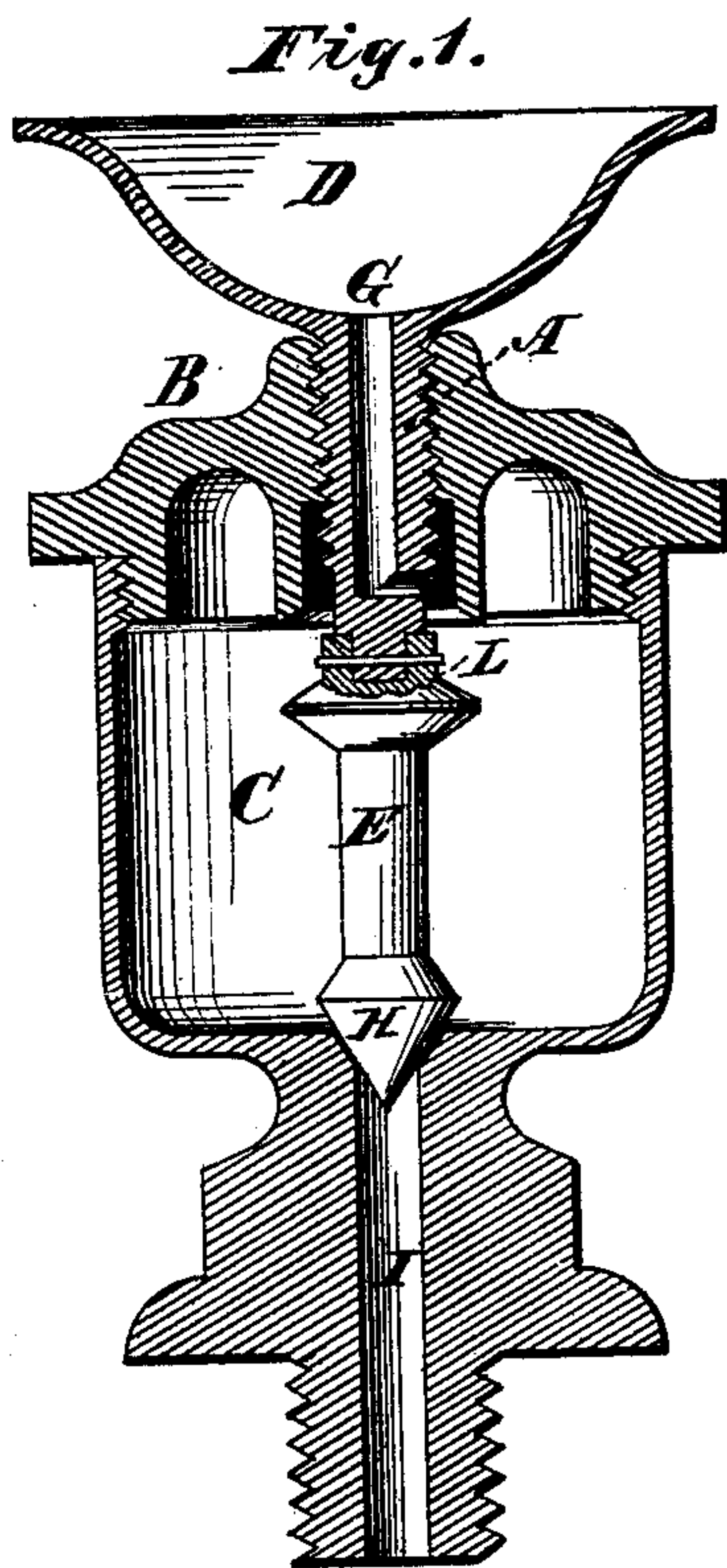


RICHARD W. DEELY.

Improvement in Lubricators for Steam-Engines.

No. 126,274.

Patented April 30, 1872.



Witnesses:  
J. G. Zeller.  
B. M. Crawford.

Inventor:  
Richard W. Deely.

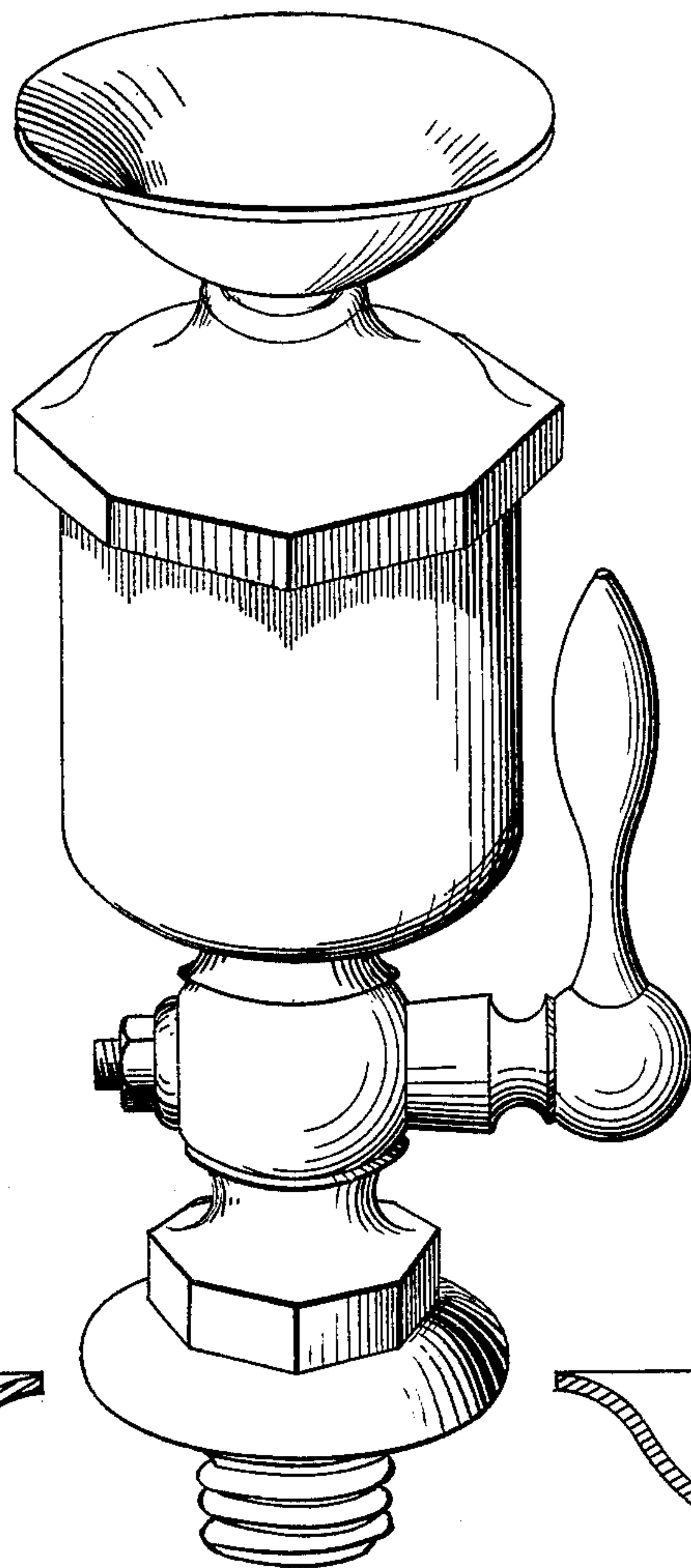
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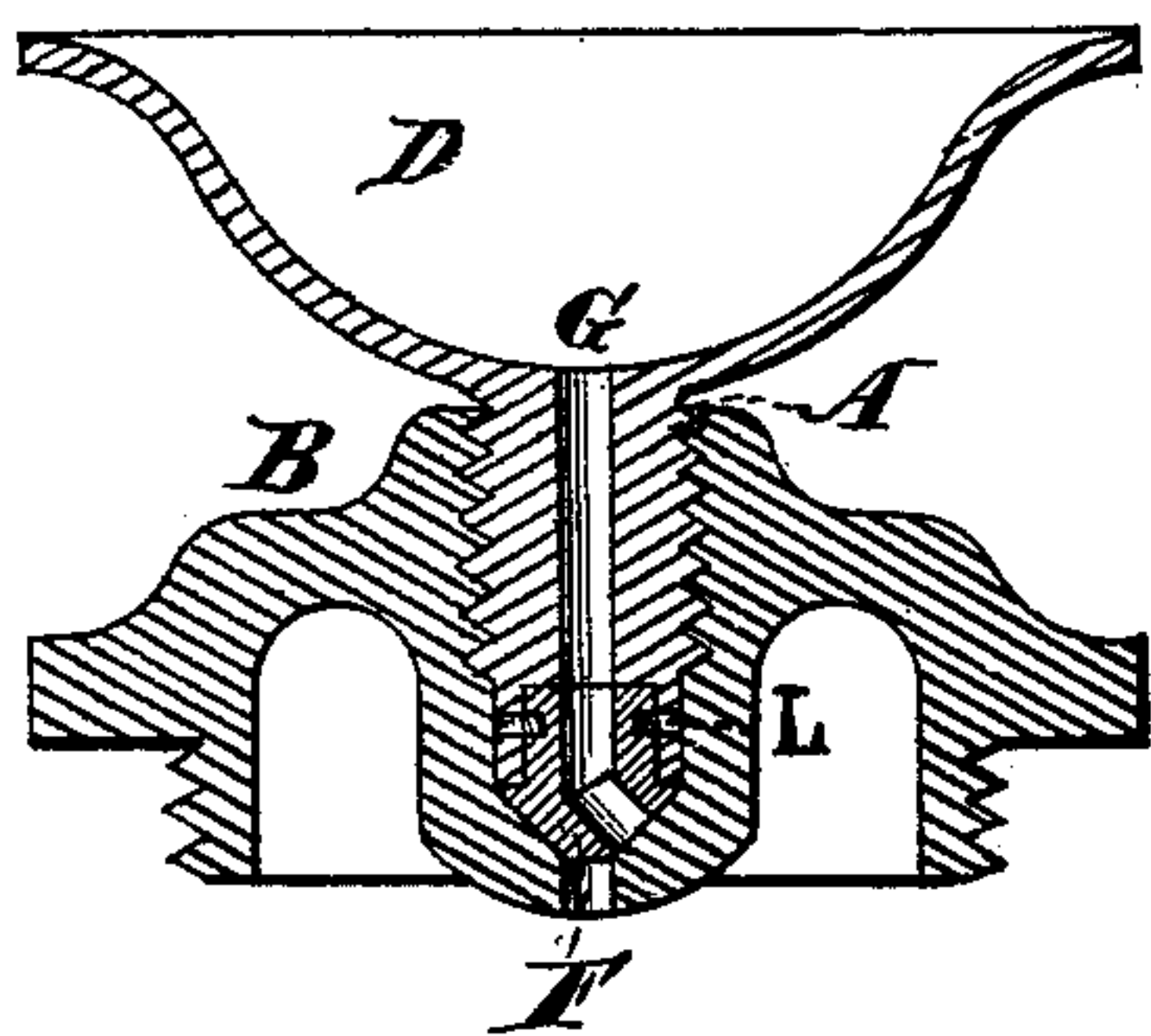
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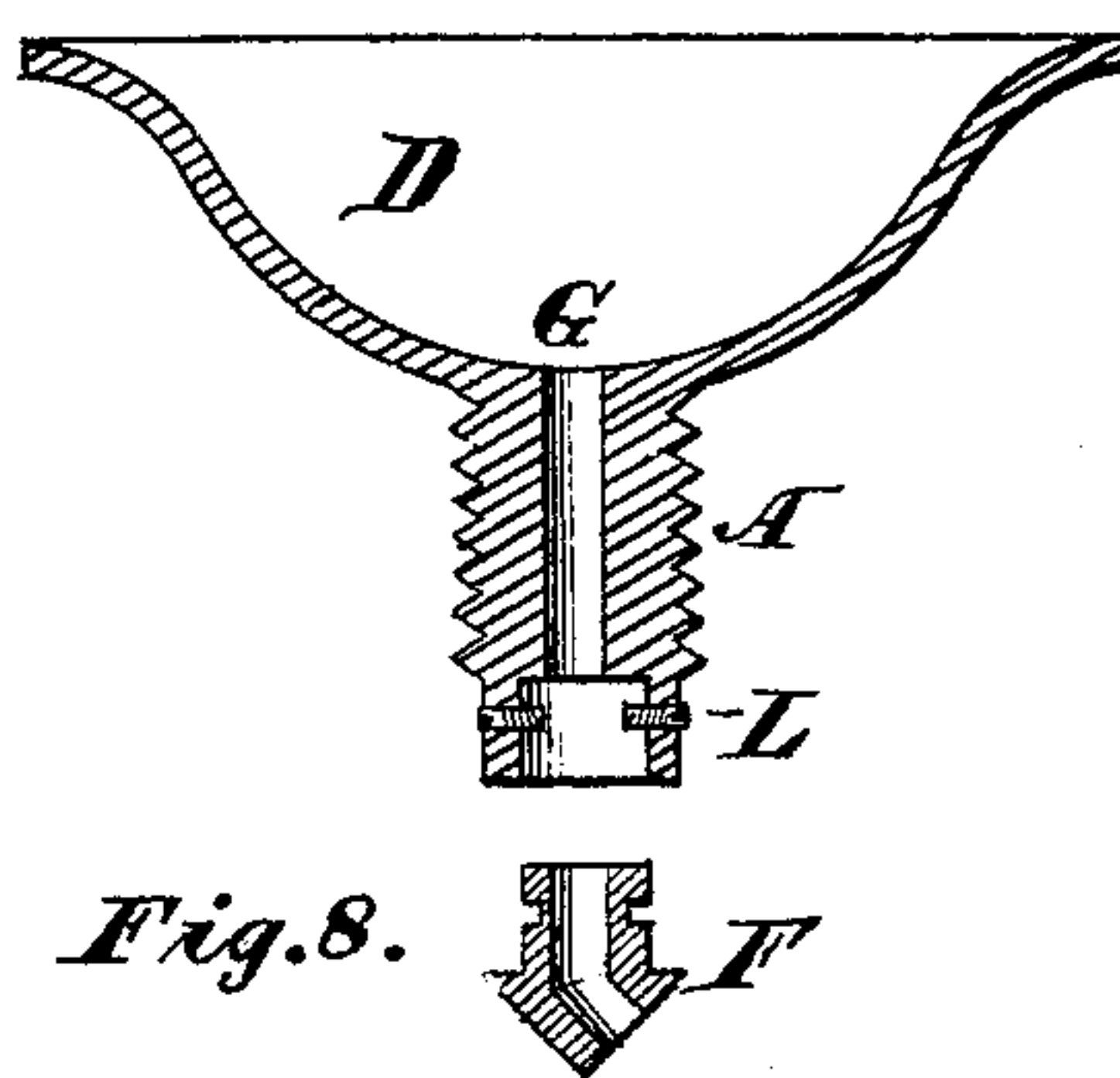
*Fig. 10.*



*Fig. 7.*



*Fig. 9.*



*Fig. 8.*

Witnesses:

*J. J. Keller.*  
*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.