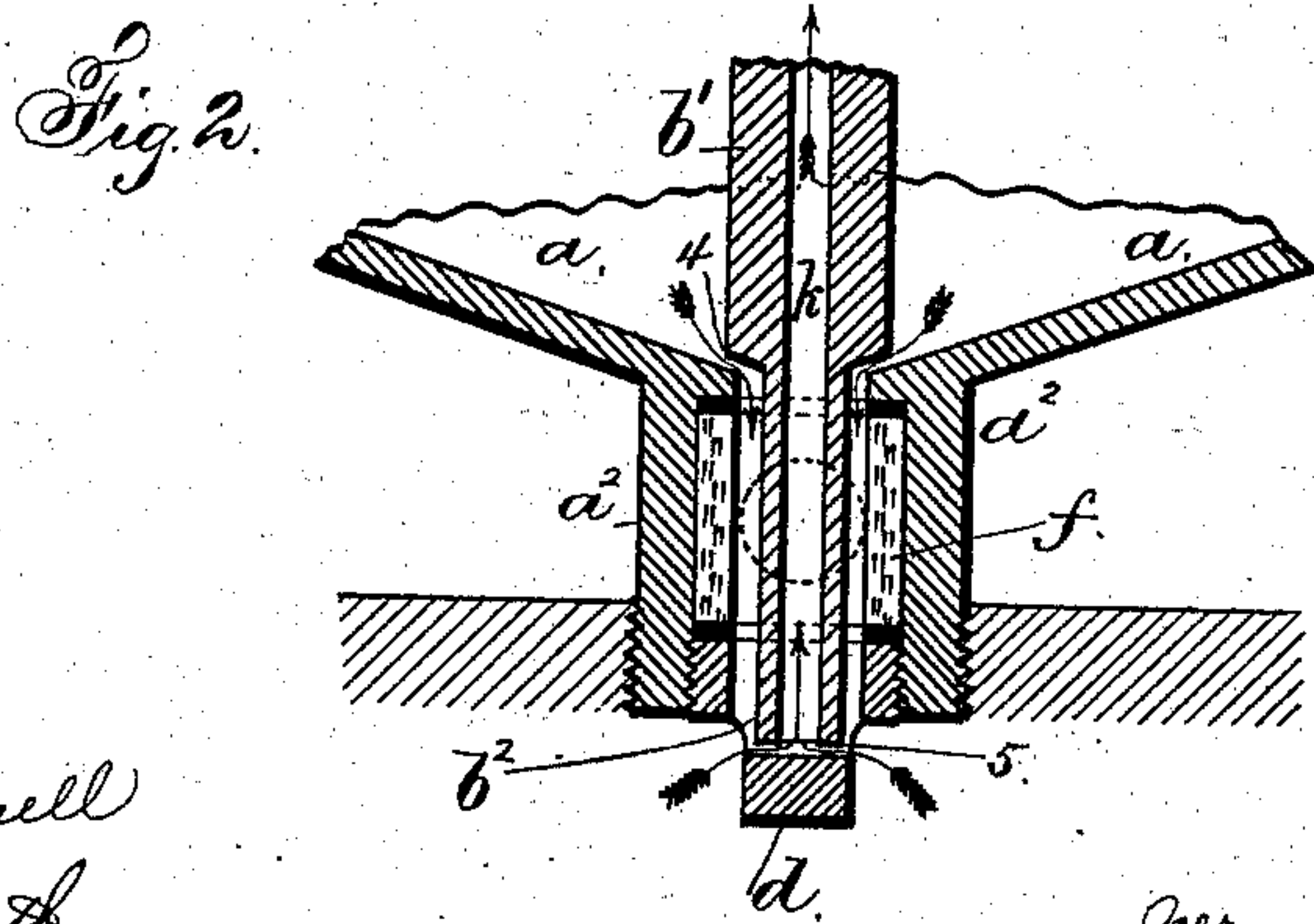
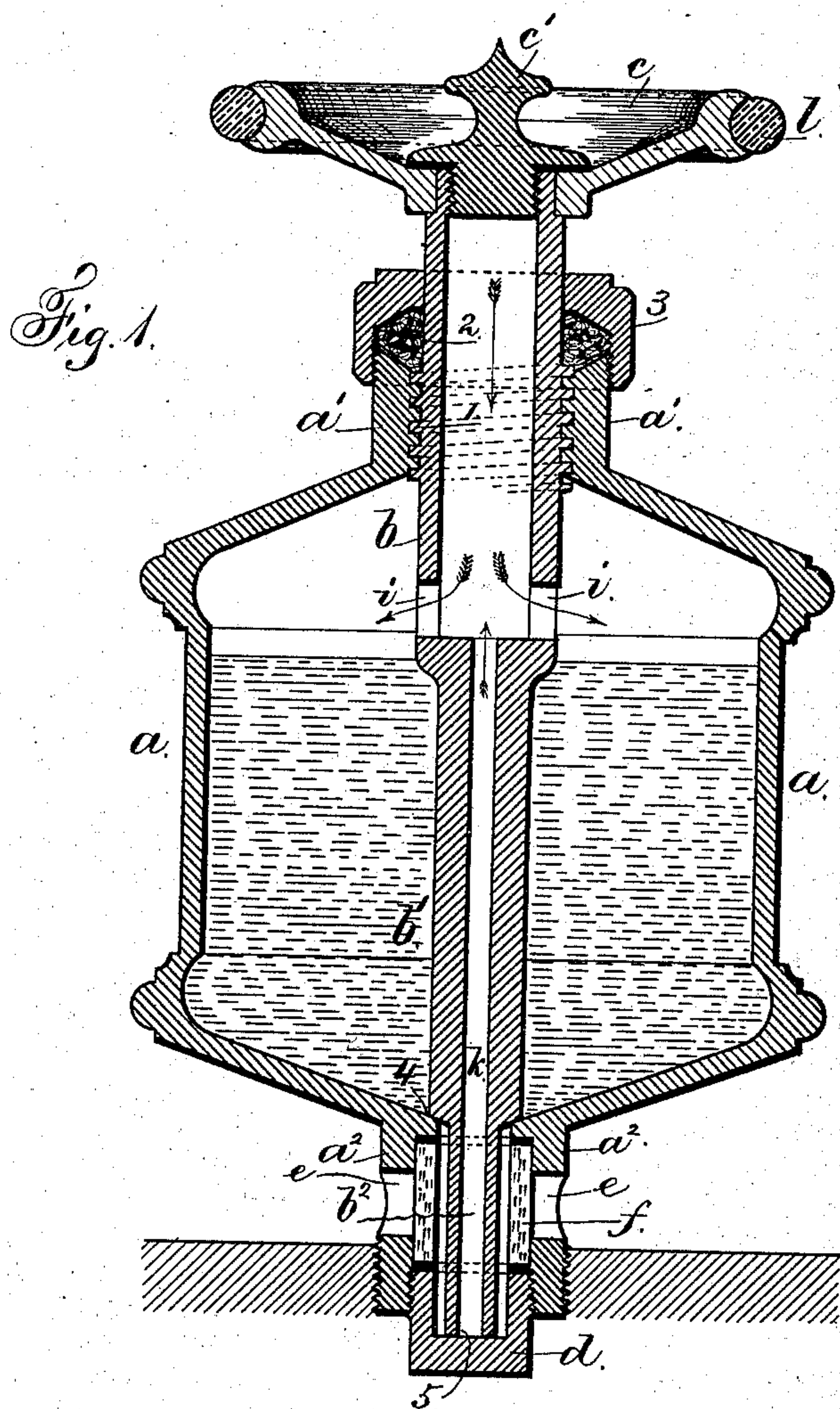


(No Model.)

L. PFINGST.  
LUBRICATOR.

No. 322,123.

Patented July 14, 1885.



Witnesses  
Harold Serrell  
Chas. H. Smith

Inventor  
per Louis Pfingst.  
Lemuel W. Serrell  
att.



# UNITED STATES PATENT OFFICE.

LOUIS PFINGST, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND JOHN PFINGST, OF SAME PLACE.

## LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 322,123, dated July 14, 1885.

Application filed May 25, 1885. (No model.)

*To all whom it may concern:*

Be it known that I, LOUIS PFINGST, of the city, county, and State of New York, have invented a new and useful Improvement in Lubricators, and the following is declared to be a description of the same.

My invention relates to that class of lubricators or oil-cups for machinery wherein steam is admitted within the lubricator to act upon the surface of the oil and equalize the pressure, so that the oil will run out of the vessel containing it and pass in regulated quantities to the parts to be lubricated within the cylinder or steam-chest.

My invention consists of a vessel for holding the oil, a hollow central stem to said vessel, through which stem the oil is introduced into the oil-vessel from above after removing a screw-cap. This stem has two seats near its lower end—one in the oil-vessel to close off the supply of oil and another at the end closing against a bridged plug and shutting off the steam. When the stem is elevated by the hand-wheel placed upon its upper end it is lifted off the aforesaid seats, and the oil is permitted to escape from the oil-vessel and steam to enter the hollow stem and pass up and out into the oil-vessel above the oil, and said steam exerts a pressure upon the surface of the oil equal to that in the cylinder steam-chest, allowing it to flow in a steady stream from the oil-vessel. There are sight-holes, lined with glass, in the neck below the oil-vessel, and through them the escaping oil can be seen and the quantity can be regulated.

In the drawings, Figure 1 is a vertical section of my improved lubricator, and Fig. 2 is a partial vertical section with the stem raised.

The oil-vessel *a* is shown as tapering at both ends, and having an upper neck, *a'*, and lower neck, *a''*. The hollow stem *b* has a hand-wheel, *c*, affixed on its upper end, by which it can be revolved, and a plug, *c'*, is screwed into the upper end of the tubular stem, for closing the same. This tubular stem *b* passes through the oil-vessel *a* and is raised and lowered by a screw-thread at 1, and there is a packing at 2, and a screw-cover at 3. This stem *b* is made smaller at *b'*, and within the oil-vessel at 4 is a shoulder that forms a valve that is seated upon the inner lower surface of the oil-chamber, and said stem is made still smaller at *b''*. Its lower end, at 5, is seated

against the surface of a bridged plug, *d*, 55 screwed into the neck *a''*. There are holes in the neck *a''* at *e*, and a section of heavy glass tube *f* is inserted within the neck *a''* and sealed by packing-rings at each end, and held in place by the plug *d*. Through these sight-holes and glass tube the escaping oil can be seen. The plug *c'* is removed after the stem *b* is screwed firmly down to place, and oil is introduced through the hollow stem and passes through the holes *i* in said stem into 65 the oil-vessel *a*, and after filling the oil-vessel the cap *c'* is replaced.

To bring the lubricator into action the wheel *c* is grasped and turned, and it and the stem *b* are thereby elevated, its valve portions being thus raised off the seats 4 5, and the steam enters by the smaller hole, *k*, in the stem, (see Fig. 2,) and passes up and out of the holes *i* into the oil-vessel *a*, and said steam, acting upon the surface of the oil, equalizes 75 the pressure, and the oil runs down inside the glass *f*, where its extent of flow can be seen and regulated by turning the stem *b*.

A ring of rubber, *l*, may be placed around the wheel *c*, if desired, as it makes a better 80 hold for the hand.

I claim as my invention—

1. The combination, in a lubricator, with an oil-vessel, *a*, of the neck *a'*, having a packing-gland, the neck *a''* having sight-holes *e*, 85 glass tube *f*, and bridged plug *d*, a hollow central stem, *b*, having a wheel, *c*, screw-plug *c'*, oil-holes *i*, and valves that rest against the inner surface of the oil-vessel and bridged plug, respectively, substantially as set forth. 90

2. The combination, with the oil-vessel *a*, of a hollow stem, *b*, reduced at *b'* and *b''*, and having oil-holes *i* and steam-hole *k*, the bridged plug *d*, and the seats 4 5, for said stem, substantially as set forth. 95

3. The combination, with an oil-vessel, of a central hollow stem adapted to be raised and lowered, means for filling the oil-vessel through the stem, a hole in said stem to admit steam, and two valves near the lower 100 end of said stem to shut off the oil and steam, respectively, substantially as specified.

Signed by me this 21st day of May, A. D. 1885.

LOUIS PFINGST.

Witnesses:

GEO. T. PINCKNEY,  
HAROLD SERRELL.