

R. A. FILKINS.
Steam-Lubricators.

No. 142,385.

Patented September 2, 1873.

Fig. 1.

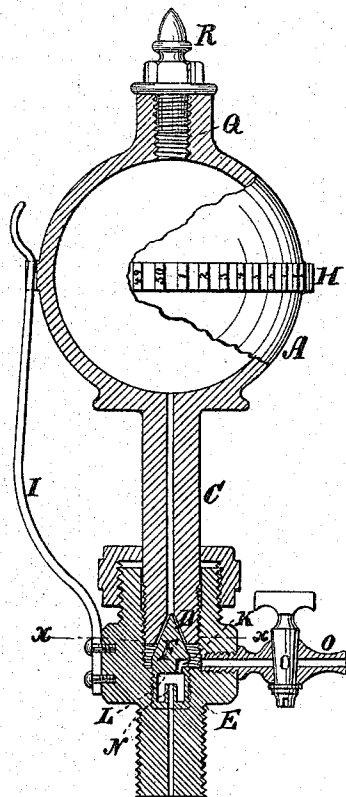
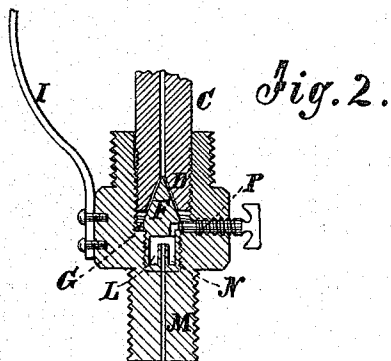
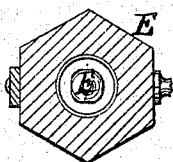


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

REED A. FILKINS, OF CHESHIRE, MASSACHUSETTS.

IMPROVEMENT IN STEAM-LUBRICATORS.

Specification forming part of Letters Patent No. 142,385, dated September 2, 1873; application filed June 21, 1873.

To all whom it may concern:

Be it known that I, REED A. FILKINS, of Cheshire, in the county of Berkshire and State of Massachusetts, have invented a new and useful Improvement in Lubricators, of which the following is a specification:

I propose to have a hollow-globe holder for the oil, having a hollow standard, with a conical enlargement of the hollow space at the lower end, said end screwing into a hollow stand on the steam-chest or journal-box, having a stationary conical plug projecting upward from the bottom of the socket, into which the standard screws into the conical hollow of the lower end of the standard, so as to regulate the flow of oil by closing the mouth of said standard more or less, as the holder and standard are screwed up or down.

The holder has a notched ring around its middle, which is graduated and numbered to show the extent of the opening of the feed at the mouth of the standard, and a spring-click engages it to hold the oil-holder to any position in which it is set. From the socket below the standard of the holder the oil enters a little chamber, in the middle of which a tube rises around the passage from said chamber into the steam-chest to retain a quantity of oil in said chamber, by which, in feeding, the oil will flow from the surface of the body contained in said recess, on the top of the tube, and down the inner surface of it, while the steam rises up in the center of the space, and thus feeds much better than it does when the tube terminates at the bottom of the chamber.

Opposite the passage from the socket into this oil-chamber, below the cone for regulating the feed, I have a cock for opening to draw off the water of condensation; but, in practice, I will have a valve which will screw into the said passage and close it, so that the steam may be shut off at any time to allow of taking off the holder when it may be desired to do so.

Figure 1 is a sectional elevation of my improved lubricator. Fig. 2 is a partial section, showing the plan for the valve to shut the

passage to the steam-chest when the globe is to be taken off; and Fig. 3 is a cross-section taken on the line *xx* of Fig. 1.

A is the hollow-globe holder for oil, tallow, &c. C is the hollow standard of the globe, with a conical mouth, D, at the lower end, which is screwed into the stand E, which is attached to the steam-chest or journal-box to be lubricated. This stand has a conical plug, F, projecting up from the bottom of the socket G, into which the standard C screws, so as to enter the mouth D to regulate the flow of oil, the said mouth being opened more or less by the screwing of the standard up or down. H is the notched ring on the oil-holder, and I is the spring-click for engaging it in the notches to hold said oil-holder after it is adjusted.

The mouth is opened or closed a hair's-breadth by turning the holder the distance of a notch; and the notches are numbered to show the extent of the opening by the number of the notch with which the click engages. The stuffing-box J packs the standard C steam-tight.

K is the passage from the socket G into a chamber, L, below the cone, from which the passage M extends to the steam-chest or journal-box. N is a tube extending upward from the bottom of this chamber L. O are the stop-cocks for discharging the condensed steam from the socket G. P is the valve which I prefer to use instead of the stop-cock for opening the passage for the escape of the water by taking it out; also, for shutting off the steam by screwing the end into the passage K. The cock may also be arranged to screw into said passage and close it. A is an opening at the top of the oil-holder for filling it, and R is a cup for closing said openings.

I do not limit myself to any particular shape or form of the vessel that holds the oil.

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

1. The combination of the oil-holder A and hollow standard C with the socket-stand E

and the conical plug F, said standard C having a bell-mouth, D, and arranged to vary the opening of it, substantially as specified.

2. The chamber L in the stand E, and tubular extension N of the passage M, substantially as specified.

3. The escape-passage for condensed steam, arranged with the socket G and a cock or valve therefor, said cock or valve being ar-

ranged to close the passage K or not, substantially as specified.

4. The combination of the notched ring H and spring-click I, substantially as specified.

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Witnesses:

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