

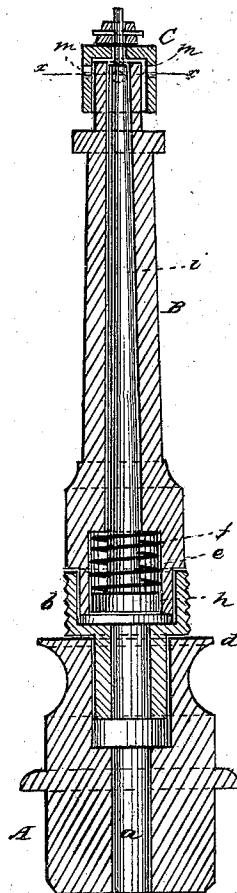
S. C. HAMLIN.
Lubricators.

No. 147,636.

Patented Feb. 17, 1874.

Fig. 1.

Fig. 2.



WITNESSES:

P. C. Dietrich.

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SOLOMON C. HAMLIN, OF YPSILANTI, MICHIGAN.

IMPROVEMENT IN LUBRICATORS.

Specification forming part of Letters Patent No. **147,636**, dated February 17, 1874; application filed January 30, 1874.

To all whom it may concern:

Be it known that I, S. C. HAMLIN, of Ypsilanti, in the county of Washtenaw and State of Michigan, have invented certain new and useful Improvements in Lubricators; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

The nature of my invention consists in the construction and arrangement of an attachment for oil-cups for steam-cylinder lubricators, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a longitudinal section of my invention, and Fig. 2 is a cross-section of the same through the line *x x*, Fig. 1.

A represents the base piece provided with a central passage, *a*, and attached in proper position for lubricating steam-cylinders. Around the upper end of the base-piece A are screw-threads *b* for attaching the same in the bottom of an oil-cup, which is screwed down upon the same until it rests upon a circumferential flange, *d*. The base-piece A may be made in two parts, as shown in the drawing, properly joined together, or of one piece only, if so desired. In the upper end of the base A is inserted and secured a tube, B, which runs up into the oil-cup, and its upper end is to be near

the top thereof. In the lower end of the tube B is a chamber or recess, *e*, in which is placed a valve or piston, *h*, provided with a rod, *i*, running up through the tube B. Around the rod *i*, between the piston *h* and the bottom of the recess *e*, is placed a spiral spring, *f*, which forces the valve or piston downward to close the upper end of the passage *a*. On the upper end of the rod *i* is attached a cap, C, which fits over the upper end of the tube B. This cap is provided with holes *m m* in its sides at different heights.

The piston or valve *h* in the pipe B is worked entirely by the steam pressing the piston up at every revolution of the engine, to give a small portion of oil, and shutting off the oil on the reverse motion by the spring *f* closing the valve, thus admitting oil to the cylinder at every revolution of the engine. The cap C on the upper end of the feeding-pipe regulates the flow of oil, the holes in the cap being for different sizes of engines.

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

The cap C attached to piston-rod *i* and fitting loosely around the end of feed-pipe B, all combined to operate substantially in the manner and for the purpose set forth.

In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses.

SOLOMON C. HAMLIN.

Witnesses:

E. P. ALLEN,
ROBERT ROWLEY.