

C. M. PRESCOTT.
Steam-Engine Lubricators.

No. 154,713.

Patented Sept. 1, 1874.

Fig. 2.

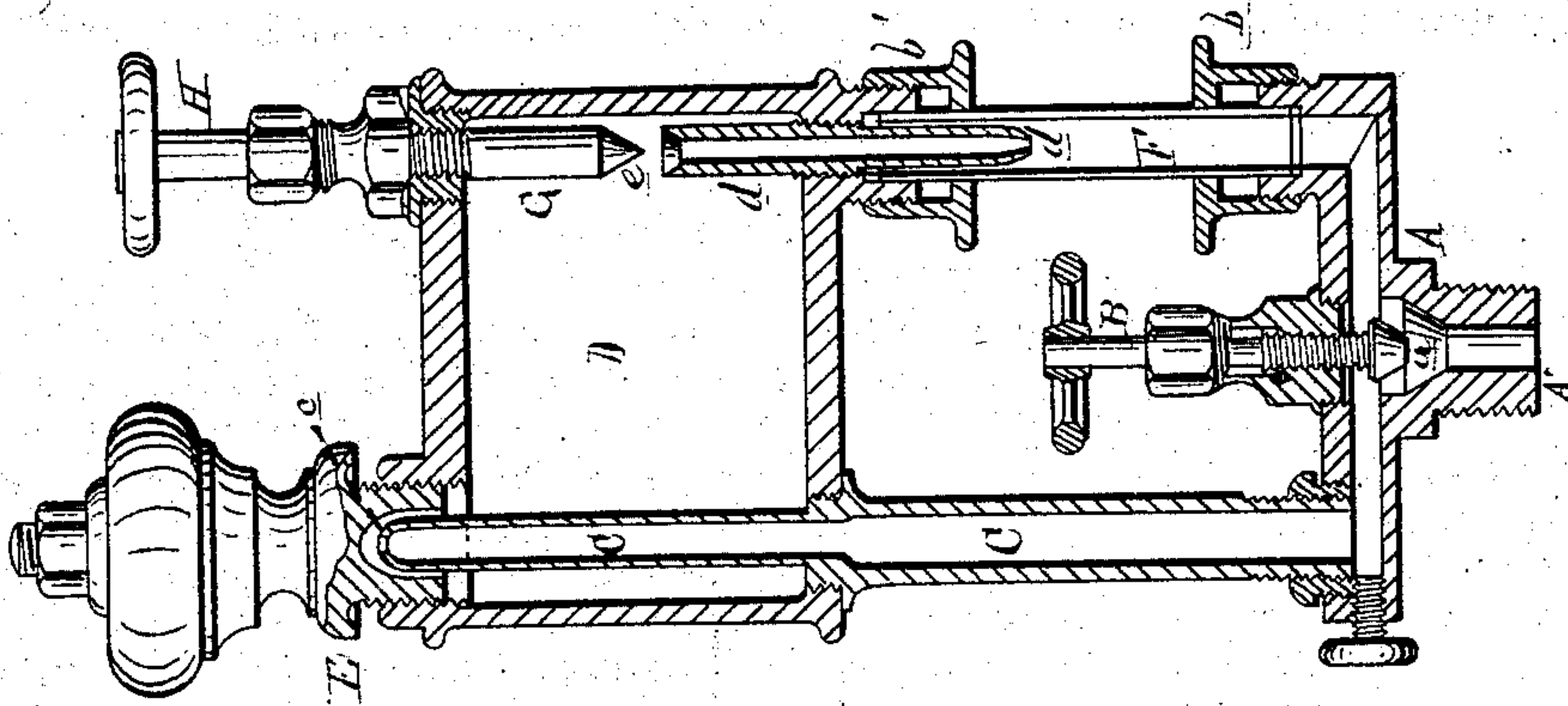
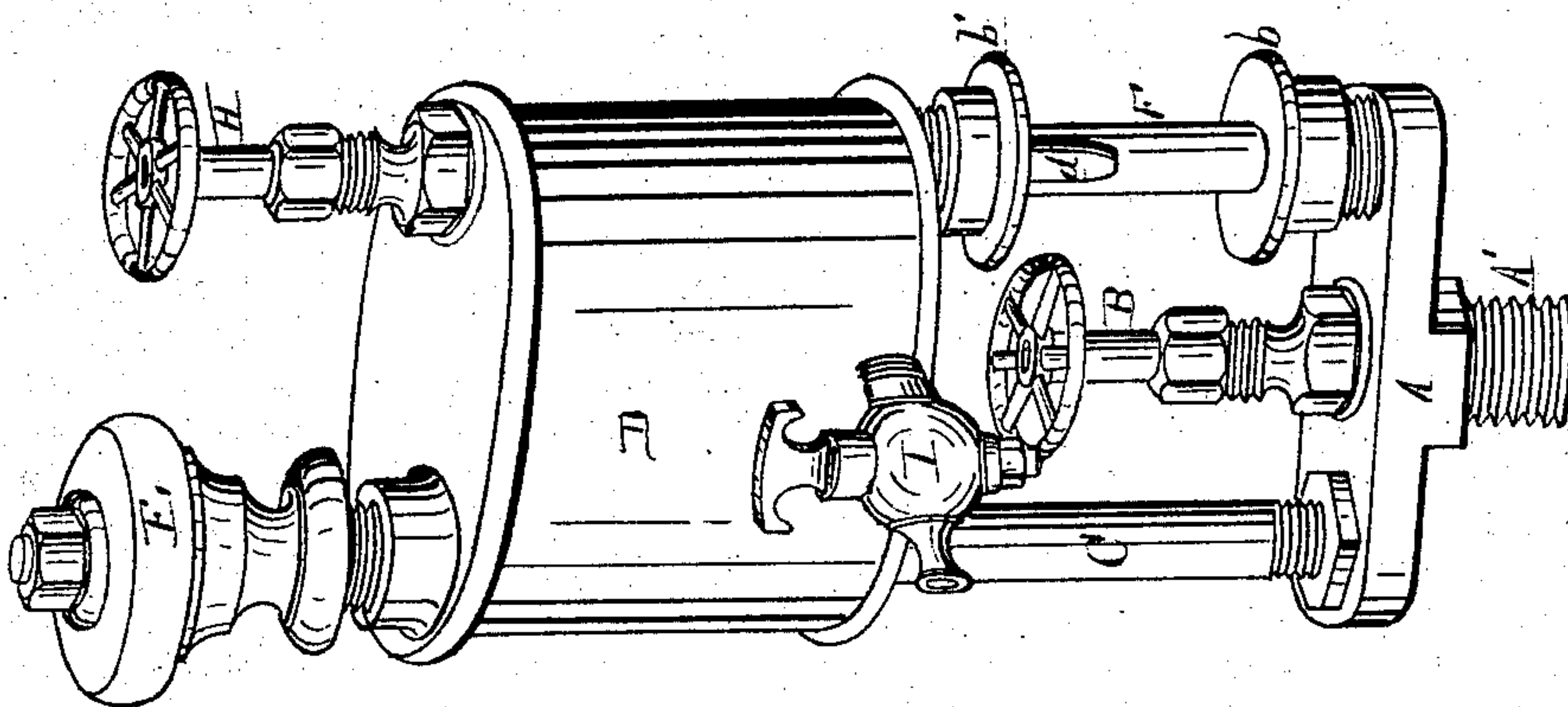


Fig. 1.



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IMPROVEMENT IN STEAM-ENGINE LUBRICATORS.

Specification forming part of Letters Patent No. 154,713, dated September 1, 1874; application filed March 13, 1874.

To all whom it may concern:

Be it known that I, CHARLES M. PRESCOTT, of Bay City, in the county of Bay and State of Michigan, have invented an Improvement in Steam-Engine Lubricators, of which the following is a specification:

The nature of this invention relates to an improvement in that class of lubricators which are applied to the steam-pipes or steam-chests of engines, for supplying oil or other fluid lubricant thereto. The peculiar and novel features of this device are that the pressure of the steam under the oil contained in the reservoir is equalized by introducing steam to the cup above the oil, which, being thus *in equilibrio*, will flow out of the cup of its own gravity; also, in causing the oil-feed to fall or drip through a glass tube, which enables the engineer to observe the rate of consumption of oil.

Figure 1 is a perspective view. Fig. 2 is a vertical transverse section.

In the drawing, A represents a T-shaped hollow base-plate, whose pendent stem A' is screw-threaded to tap into a steam-chest cover or a steam-pipe. *a* is a valve at the lower end of a screw-stem, B, tapped through the top of the base-plate, and is designed to close the passage through the hollow stem A', at one end of the base-plate, and connecting with its interior, rises a hollow standard, C, which supports an elevated reservoir, D, through which it rises into the filling-collar, which is closed by a screw-plug, E. The top of the tubular standard C is perforated by a pin-hole, *c*, for the emission of a minute jet of steam. F is a glass tube coupled by a screw-gland, *b*, with a nipple on the other end of the base-plate, and by a similar gland, *b'*, with a nipple pendent from the bottom of the reservoir, through which last nipple passes a drip-pipe, *d*, whose lower end projects down into the tube far enough below the gland *b'* to be visible. Its upper end projects up into reservoir about one-third of the height of said reservoir, terminating in a seat for a spindle-valve, G, whose screw-stem H is threaded through

the top of the reservoir. The lower end of the valve G terminates in a conical spindle, *e*, which partially fills the top of the pipe *d*, in order to enable the engineer to adjust the flow to a small stream, or to merely pass occasional drops of oil into the drip-pipe, which drop from its end through the glass tube into the base-plate, flowing along its passage into the hollow stem A'; thence into the steam-chest. The steam issuing from the hollow stem A' passes up the hollow standard C, and passes out of the pin-hole *c* in its top above the oil, counterbalancing the pressure of steam exerted through the gage F and drip-tube *d*.

By closing the stop-valve B, the plug E can be removed to fill the reservoir with oil, sediment and water of condensation being drawn off through a cock, I, in the lower part of the said reservoir. The feed or flow of the oil can be observed at all times, and adjusted to the requirements of the engine at the moment by means of the spindle-valve.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a stem-feeding lubricator, the combination of the hollow standard C, with pin-hole *c*, and tube F, with drip-tube *d*, both communicating with the hollow stem A', and constructed and arranged so as to have a steam-pressure above and below the oil in the lubricator, substantially as set forth.

2. The herein-described lubricating device consisting of the hollow base A, provided with the stop-valve *a*, the hollow standard C, elevated reservoir D, plug E, glass tube F, valve G, and drip-pipe *d*, all constructed and arranged to operate substantially as set forth.

3. In an engine-lubricator, the combination, with the hollow base A and an elevated oil-reservoir, D, provided with a drip-pipe, *d*, of the glass tube F, as and for the purpose set forth.

CHARLES M. PRESCOTT.

Witnesses:

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