

E. MCCOY.

STEAM CYLINDER LUBRICATOR.

No. 179,585.

Patented July 4, 1876.

Fig 1

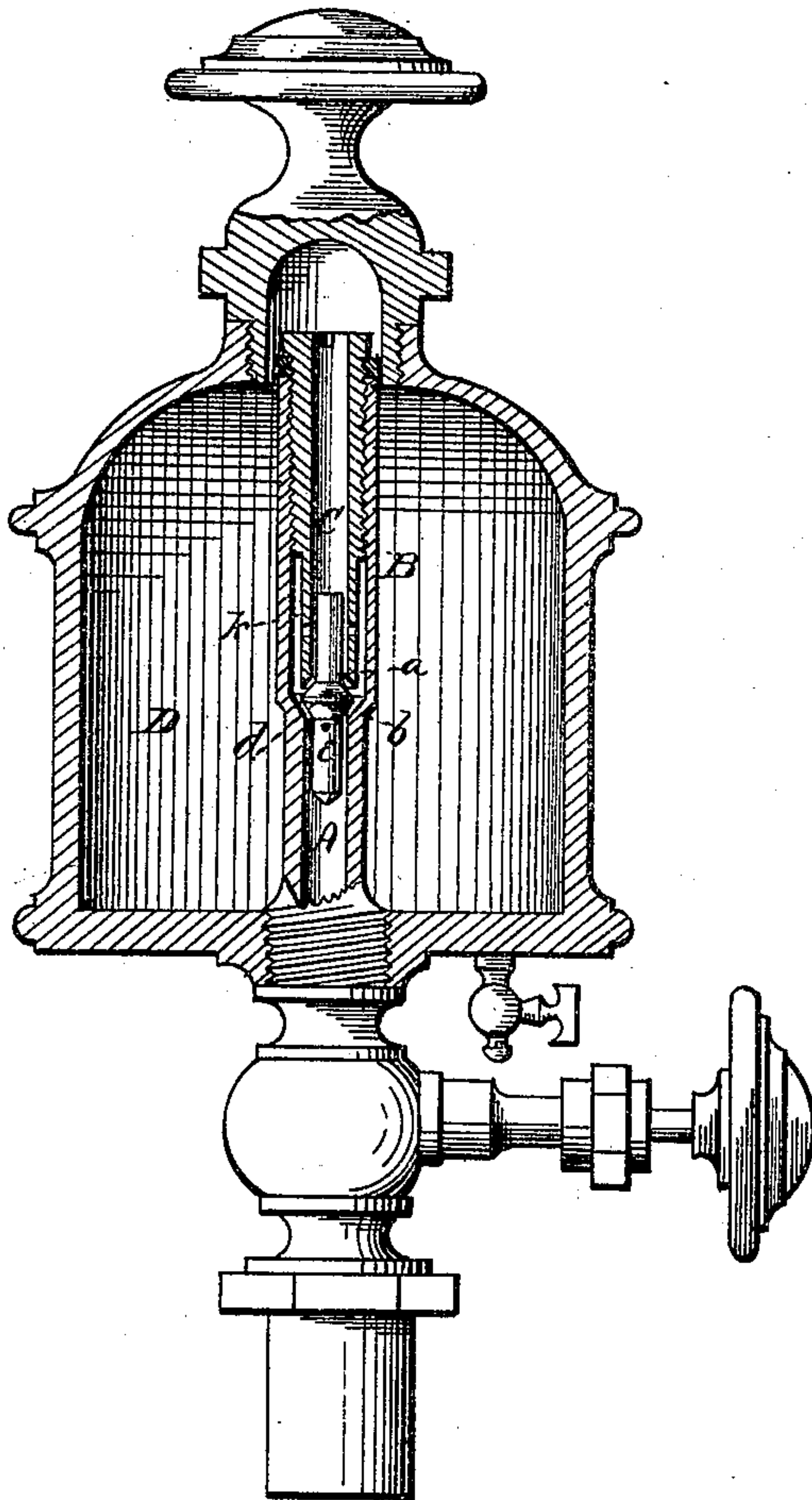
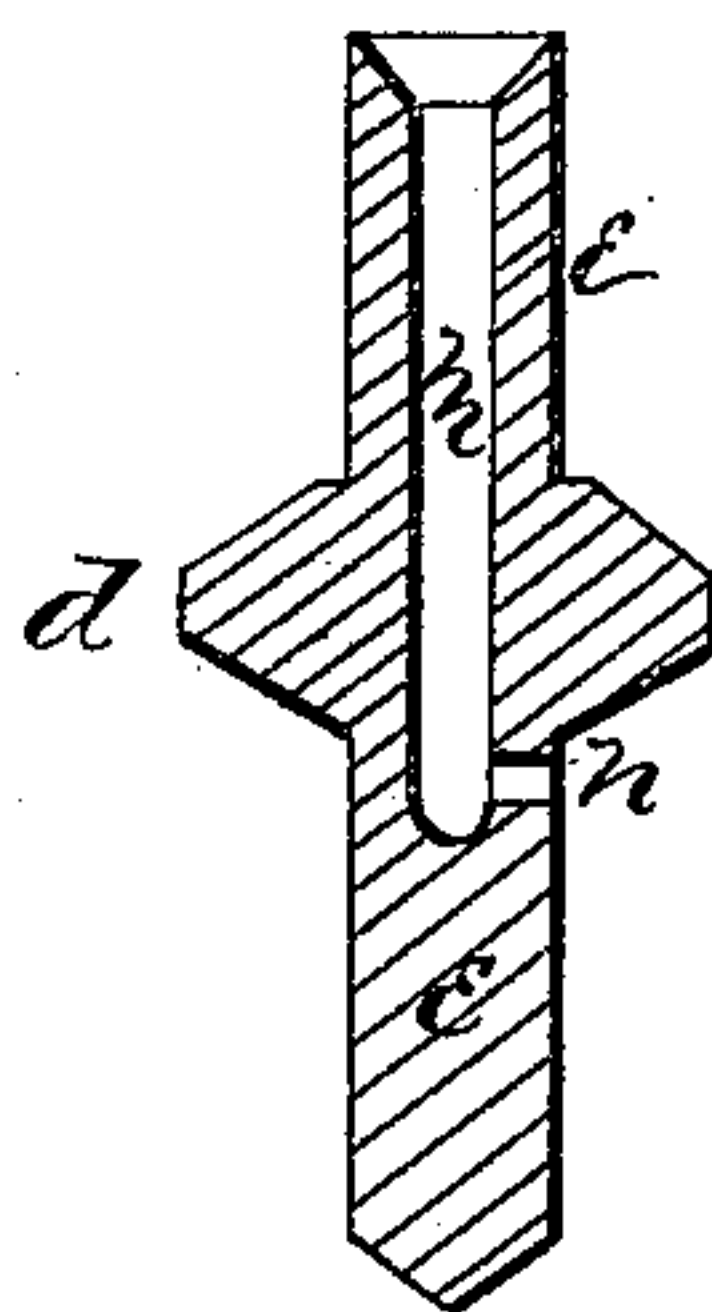


Fig 2



WITNESSES

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ELIJAH McCOY, OF IONIA, ASSIGNOR TO RANSOM C. LUCE AND GEORGE S. WOODRUFF, OF GRAND RAPIDS, MICHIGAN.

IMPROVEMENT IN STEAM-CYLINDER LUBRICATORS.

Specification forming part of Letters Patent No. **179,585**, dated July 4, 1876; application filed June 2, 1876.

To all whom it may concern:

Be it known that I, ELIJAH McCOY, of Ionia, in the county of Ionia and State of Michigan, have invented certain new and useful Improvements in Steam-Cylinder Lubricator; 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 a part of this specification.

The nature of my invention consists in certain improvements in the double-seated valve of the steam-cylinder lubricator for which Letters Patent No. 173,032 were granted to me February 1, 1876, as will be hereinafter more fully set forth.

In the annexed drawings, Figure 1 is a vertical section of my improved steam-cylinder lubricator. Fig. 2 is a perspective view of the valve.

D represents the oil-cup; A, the central tube, with enlargement B. C is the regulating-tube, reduced in diameter at its lower end. *a b* are the valve-seats; *k*, the oil-chamber; *d*, the double valve, and *e* the valve-stem, all these parts being constructed and arranged substantially in the same manner as described in my former patent above referred to. In that case, however, the double valve and its seat were made solid; and I have found, by practice, that I cannot inject cold oil in a cylinder using

steam-packing, which is very much needed when such packing gets gummed up. To obviate this difficulty is the object of my invention; and to this end a hole-passage, *m*, is made vertically from the upper end of the valve-stem downward below the valve, and there communicating with a hole, *n*, through the side of the stem.

With this improvement, when the valve is on the seat stationary, cold oil may be admitted to the cylinder while the engine is in motion, with the top of the cap removed.

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

The combination of the oil-cup D, central tube A, with enlargement B, perforated regulating screw-tube C, reduced in diameter at its lower end, and forming the oil-chamber *k*, the valve-seats *a b*, the double valve *d*, having stem *e* with vertical oil-passage *m* from the upper end downward to below the valve, and open at *n*, all constructed substantially as and for the purposes herein set forth.

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

ELIJAH McCOY.

Witnesses:

OMAR H. SIMONDS,
GEORGE S. WOODRUFF.