

J. MEEHAN.
LUBRICATOR.

No. 106,712.

Patented Aug. 23, 1870.

Fig. 1.

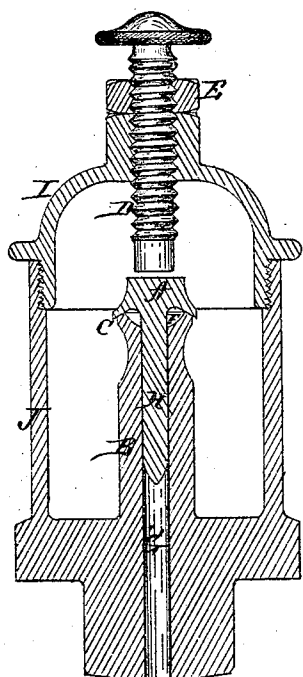
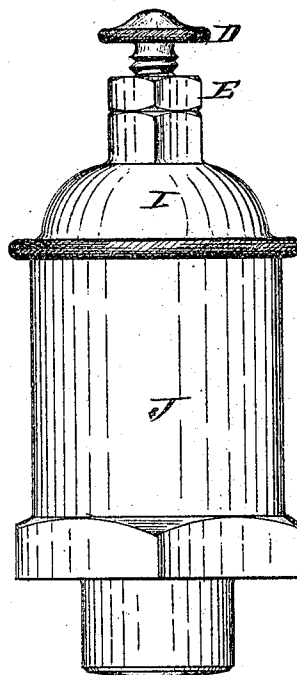


Fig. 2.



Witnesses:

Chas. Jacobs

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Inventor

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Per

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Att'y

UNITED STATES PATENT OFFICE.

JAMES MEEHAN, OF COVINGTON, KENTUCKY.

IMPROVEMENT IN LUBRICATORS.

Specification forming part of Letters Patent No. 106,712, dated August 23, 1870.

To all whom it may concern:

Be it known that I, JAMES MEEHAN, of the city of Covington, in the county of Kenton and State of Kentucky, have invented certain new and useful Improvements in Oil Cups or Feeders for Locomotives or other Machinery; 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 the construction and arrangement of an oil-cup for lubricating the journals of crank or eccentric motion, as will be hereinafter 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 drawings, in which—

Figure 1 is a longitudinal vertical section, and Fig. 2 is a side view of my oil-cup.

J represents an oil-cup, made in any desired form, with its cap I, adjusting-screw D, jam-nut B, and central or perpendicular tube B, with an opening or bore, G, and a concave mouth, F, and seat C, into which is inserted and fitted a conical or cup-shaped valve, A, with a stem, H, made to correspond in size with the opening or bore G, and of sufficient length to pass down about two-thirds of the length of perpendicular tube B. The cup-shaped valve is so constructed that when the stem H is inserted in the bore G it will form a perfect air-tight joint on the face or seat C of the perpendicular tube B, and is kept in its place by means of the adjusting-screw D and jam-nut E.

The operation of the cup is as follows: When the cup is attached to the strap or stub end of a rod the centrifugal action of the crank will

cause the valve to oscillate or move up and down in the opening or bore G, thereby causing the oil to pass into the conical opening F and be carried down through the opening G by means of the stem H; or the stem in its upward motion draws the air into the cup and in its downward motion expels it in a moistened state from the evaporation of the oil. The amount of movement or rise and fall to valve is regulated by means of the adjusting-screw D and jam-nut E, which regulates the supply of oil, and when the crank is at rest the concave lower face of the valve, forming a perfect air-tight joint on the seat C, will prevent any oil from escaping only when the crank is in operation. The same cup feeds on the guides or slide-bars by action of the cross-head.

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

1. The perpendicular tube B, with its concave mouth or opening F, bore G, and seat C, constructed and arranged substantially as herein set forth.

2. The cup-shaped valve A, with its concave or lower face resting on the seat C and its stem H terminating in a point and fitted into the bore G, substantially as herein set forth.

3. The combination of the cup J with tube B, valve A, stem H, cap I, screw D, and jam-nut E, all constructed as described, and operating 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.

JAMES MEEHAN.

Witnesses:

W. H. TEBBS,
WM. B. SHEEHAN.