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I. BARNETT & PETER ECKFORD.

Improvement in Lubricators.

No. 122,427.

Patented Jan. 2, 1872.

Fig. 1

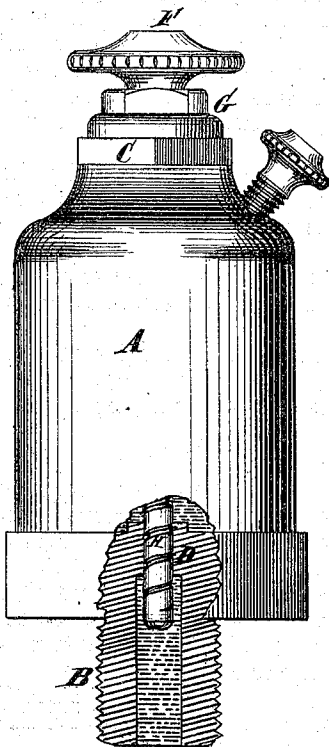
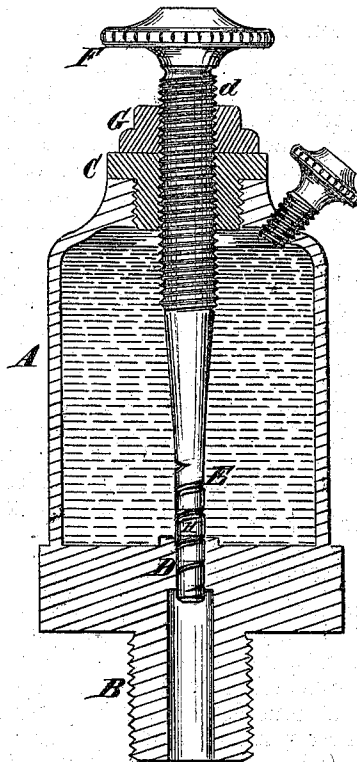


Fig. 2



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ISAAC BARNETT AND PETER ECKFORD, OF CINCINNATI, OHIO.

IMPROVEMENT IN LUBRICATORS.

Specification forming part of Letters Patent No. 122,427, dated January 2, 1872.

We, ISAAC BARNETT and PETER ECKFORD, both of Cincinnati, Hamilton county, State of Ohio, have invented a certain new and useful Improvement in Lubricators, of which the following is a specification:

Nature and Objects of Invention.

Our invention consists of a lubricator in which the cylindrically-shaped outlet is governed by a tightly-fitting plunger, which has a spiral groove of varying depth cut upon its lower end and a screw-thread upon its upper end, adapted to a nut in the top of the oil-cup, through which it extends, so that the flow of the oil may be regulated or entirely shut off from the outside by screwing the plunger in or out, whereby the outlet formed by the tapering groove is contracted or enlarged.

Description of the Accompanying Drawing.

Figure 1 is an exterior view, partly sectionized, of a lubricator embodying our invention, the instrument being adjusted to deliver oil rapidly. Fig. 2 exhibits the same cup in section, with the plunger adjusted to deliver the oil very slowly.

General Description.

A is the cup or oil-chamber; B, the shank, adapted for attachment to the part requiring lubrication; and C, the cap of the cup. D is the discharging-aperture, which is bored perfectly cylindrical, and fitted with a plunger, E, snugly. The upper end of the plunger E has a screw-thread, *d*, cut upon it, which fits the interior screw-thread of the nut or cap C.

A milled head, F, is formed upon the top of the plunger E to afford convenience for the adjustment of the plunger, and a lock-nut, G, is fitted to the screw-thread *d*, which serves to secure the plunger at any point of adjustment. The part of the plunger which fits into the cylindrical discharge-opening D has a spiral groove, H, cut upon it, which is variable in depth, being deep cut at the upper end, and gradually decreasing in depth of cut until it reaches a point near the lower end, where it ceases altogether.

The flow of oil is regulated by the adjustment of the plunger E and the exposure of more or less of the spiral groove below the aperture D.

This device admits of very nice adjustment, and also admits of an entire stoppage of the flow.

As an inferior modification of this device, the groove H, in place of being cut spirally, may be straight, with varying depth of cut.

Claim.

In a lubricator, the plunger E, which is fitted in the cylindrical aperture D, and constructed with a groove, H, of variable depth or area, when it is extended with its screw-threaded end *d* through the nut C, substantially as and for the purpose specified.

In testimony of which invention we hereunto set our hands.

ISAAC BARNETT.

PETER ECKFORD.

Witnesses:

FRANK MILLWARD,

JOHN A. CONN.

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