(No Model.)

# C. C. YOUNG

## LUBRICATOR.

No. 513,290. Patented Jan. 23, 1894.

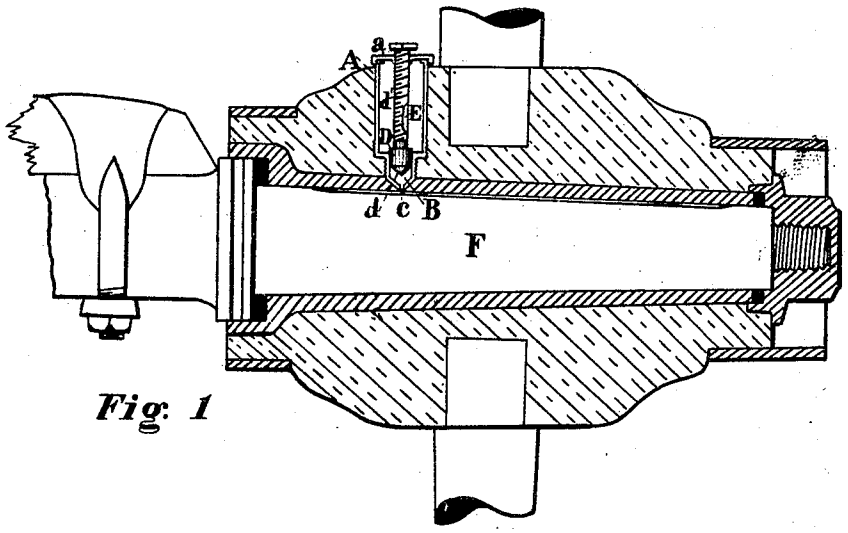



*Fig. 1*

*Fig. 2*

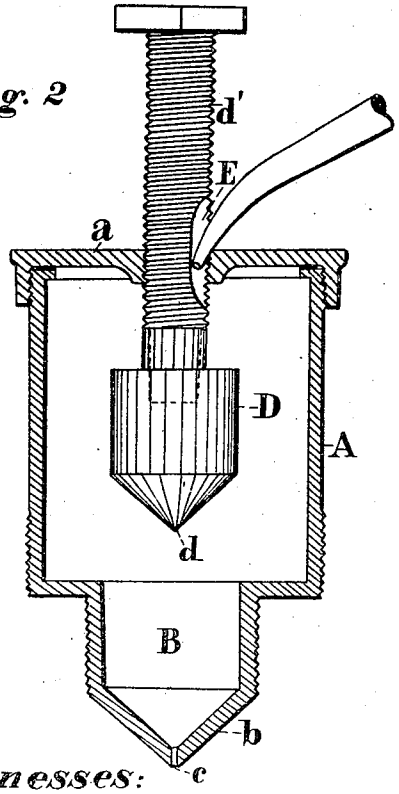
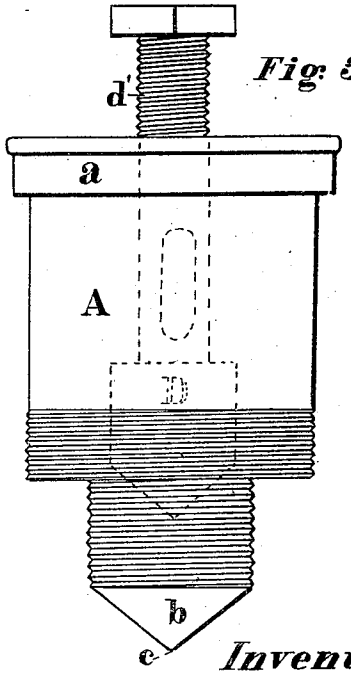



*Fig. 3*




*Witnesses:*

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# UNITED STATES PATENT OFFICE.

CHARLES C. YOUNG, OF ELLSWORTH, MAINE.

## LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 513,290, dated January 23, 1894.

Application filed August 24, 1893. Serial No. 483,989. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES C. YOUNG, a citizen of the United States, residing at Ellsworth, in the county of Hancock and State of Maine, have invented certain new and useful Improvements in Axle-Lubricators; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention consists of an improved axle lubricator, and is illustrated in the accompanying drawings in which—

Figure 1. is a longitudinal, sectional view of hub with lubricator in position. Fig. 2. is an elevation of screw plunger raised with oil cup in longitudinal section. Fig. 3. is an elevation of lubricator with screw plunger partly lowered.

Similar letters refer to corresponding parts throughout the figures.

I provide an oil cup or reservoir A of convenient capacity offset at the bottom to a chamber B of diminished size, and terminating at its lower extremity in a beveled point *b* furnished with a minute vent *c* about the size of a pin head. The interior of the diminishing chamber B is shaped to correspond with the exterior bevel and to receive and fit the point *d* of the plunger D, while the exterior of the chamber B and the lower portion of A are screw threaded and the upper portion of A is nut faced. The plunger D is formed with a point *d* shaped to fit the diminished chamber B and with a screw threaded shank *d'* working through the cap or cover *a* of the cup A. The plunger is of such length as to permit its point to rest in the bottom of the chamber B when fully screwed down, and the point then acts as a stopper and prevents the further flow of the oil. The point may, if desired, be faced with rubber. The whole plunger is operated by the fingers. A gouge or slot E is formed upon one side of the shank *d'* of the plunger of a length slightly greater than the thickness of the cover of the cup and of such depth as to permit the entrance and passage of a stream of oil when the slot is brought opposite the edge of the cover of the cup, as shown in Fig. 2. It is located preferably slightly below the middle of the length of the shank.

In operation, the hub being bored for the purpose, the lubricator is screwed into position so that the vent *c* may discharge upon the axle F. The screw plunger D is raised to the position shown in Fig. 2. and the oil introduced through the slot E to such quantity as may be desired. The plunger D is then screwed down until the slot E is entirely within the reservoir and below its cover whereby the whole top is now tightly closed. The plunger may now be screwed down to the bottom of the lower chamber B the oil in that chamber being of course forced out through the vent *c* upon the axle, and when more oil is required, the plunger is raised from the chamber B which again fills instantly, when, the plunger being screwed down, the oil is again forced out and the axle lubricated.

The filling and emptying of the reservoir being accomplished in the manner above indicated, it is apparent that the wheel need never be removed for the purpose of lubrication.

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

A lubricator consisting of the combination of an oil-cup having a chamber communicating with and located above a smaller chamber, terminating at its lower extremity in a discharge passage; and a plunger having a screw-threaded shank operating in the cover of said large chamber and a point shaped and fitted to be introduced into and fill said small chamber and to be raised out therefrom, the shank of said plunger being gouged or slotted longitudinally for a portion of its length toward its lower end.

CHARLES C. YOUNG.

Witnesses:
JOHN A. PETERS, Jr.,
J. E. BUNKER, Jr.