

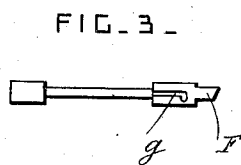
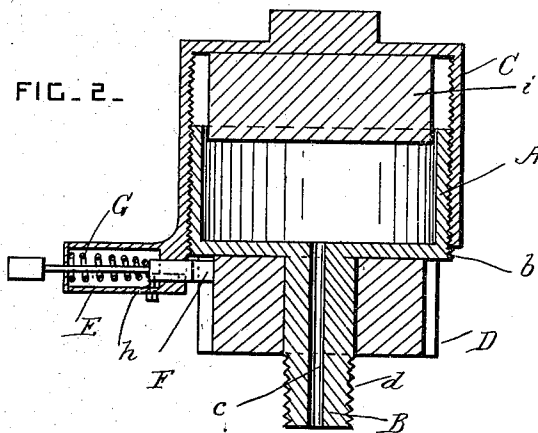
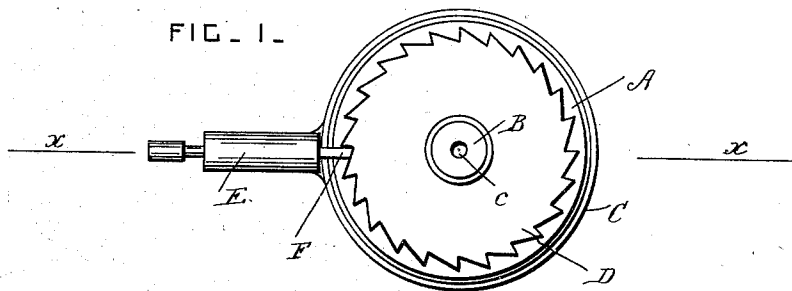
No. 736,263.

PATENTED AUG. 11, 1903.

H. JAMES.
LUBRICATOR.

APPLICATION FILED JAN. 19, 1903.

NO MODEL.



WITNESSES
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UNITED STATES PATENT OFFICE.

HARRY JAMES, OF MARLOW, INDIAN TERRITORY.

LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 736,263, dated August 11, 1903.

Application filed January 19, 1903. Serial No. 139,621. (No model.)

To all whom it may concern:

Be it known that I, HARRY JAMES, a citizen of the United States, residing at Marlow, Indian Territory, have invented certain new and useful Improvements in 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.

This invention relates to lubricators for heavy oils or axle-grease; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a plan view of the lubricator from below. Fig. 2 is a section taken on the line *x x* in Fig. 1. Fig. 3 is a detail side view of the pawl.

A is a circular box for the lubricating material, which consists of heavy oil or thick grease which will not flow freely. The box A is provided with fine screw-threads *b* on the exterior of its periphery.

B is a screw-threaded stem which projects from the bottom of the box and which has a small outlet-hole *c* for the lubricant.

C is a cap which is screwed over the box A, the fine screw-threads being of sufficiently close fit to prevent the lubricating material from leaking out. The cap C forms a reservoir or chamber in which the grease is placed, and the grease is forced out of the hole *c* periodically by screwing the cap upon the box.

D is a ratchet-toothed wheel, which is secured on the stem B between its screw-threaded portion *d* and the bottom of the box A.

E is a guide-tube which projects radially from the cap C, with its open end beyond the edge of the cap.

F is a pawl which slides in the guide-tube E and engages with the teeth of the ratchet-wheel.

G is a spring which normally holds the pawl in engagement with the ratchet-wheel. The pawl has an angle-shaped slot *g* in its stem, and *h* is a catch on the guide. When the pawl is retracted by hand and partially revolved, the lateral part of its slot is slid over the catch, and the pawl is thereby held out of engagement with the ratchet-wheel and the cap can be removed and refilled with grease.

The pawl slides across the face of the ratchet-wheel as the cap is screwed up, and the pawl prevents the cap from becoming unscrewed and dropping off. The pawl and the ratchet-wheel also form a gage for screwing up the cap, as the cap can be screwed up for one or more teeth at each operation.

This lubricator is specially intended for use on vehicle-axle bearings, and it is attached to the axle in any convenient position; but it may also be used on all other places where it can be applied to advantage.

In carrying out the invention the cap may screw outside the box, as shown, and the follower may be omitted, or it may have a follower screwing inside the box, or the follower *i* may be used without screw-threads to press the grease out of the box, as shown.

What I claim is—

1. In a force-feed lubricator, the combination, with a grease-box provided with a projecting stem at its bottom having an outlet-hole, and a toothed wheel secured on the said stem against the bottom of the said box; of a cap screwed to the said box, a guide-tube which projects radially from the said cap with its open end below the edge of the cap, and a spring-pressed pawl slidable in the said guide-tube and engaging with the teeth of the said wheel.

2. In a force-feed lubricator, the combination, with a grease-box provided with a projecting stem at its bottom having an outlet-hole, and a toothed wheel secured on the said stem against the bottom of the said box; of a cap screwed to the said box, a guide-tube which projects radially from the said cap with its open end below the edge of the cap, a spring-pressed and partially-revoluble pawl slidable in the said tube and provided with an angle-shaped slot *g*, and a stationary catch-pin *h* which projects inside the guide-tube and engages with the said slot.

In testimony whereof I affix my signature in presence of two witnesses.

HARRY JAMES.

Witnesses:

THOMAS L. WADE,
WILL DARNALL.