W. S. McCLUNG.

LUBRICATOR.

APPLICATION FILED MAR. 5, 1912.

1,051,609. Patented Jan. 28, 1913.

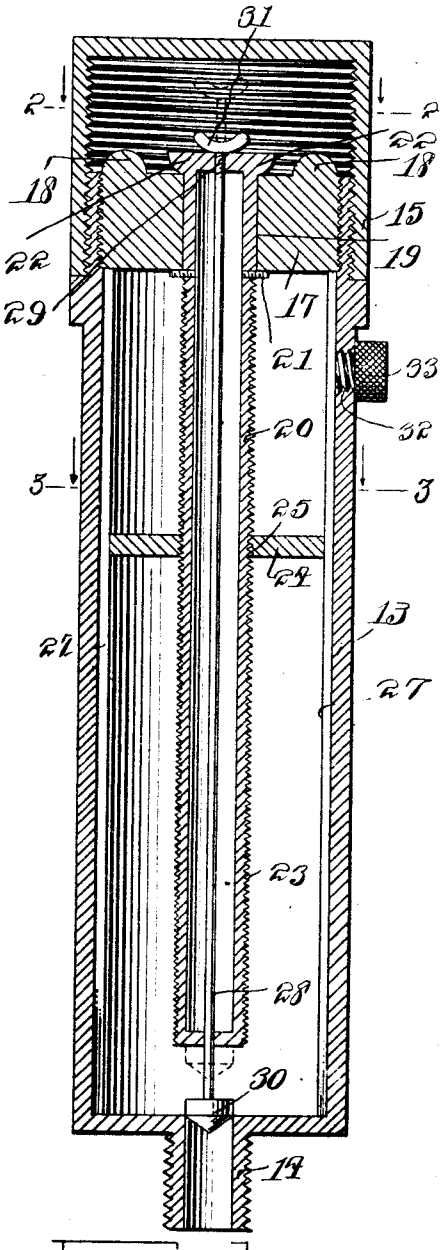

FIG. 1.

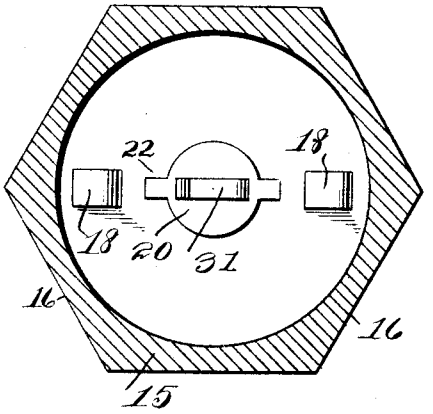

FIG. 2.

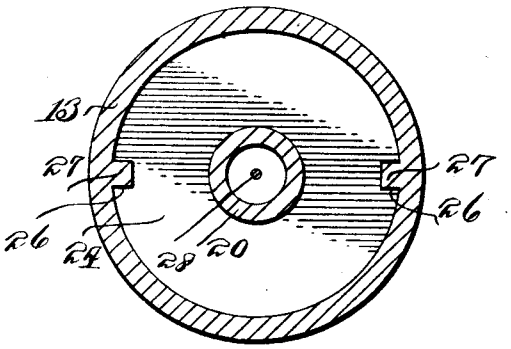

FIG. 3.

Witnesses
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UNITED STATES PATENT OFFICE.

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LUBRICATOR.

1,051,609. Specification of Letters Patent. Patented Jan. 28, 1913.

Application filed March 5, 1912. Serial No. 681,866.

To all whom it may concern:

Be it known that I, WILLIAM S. McCLUNG, a citizen of the United States, residing at Hagerman, in the county of Chaves, State of New Mexico, 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 use in connection with vehicles, machinery, etc., with wheels to be oiled or greased to prevent friction on the axle or spindle of the wheels.

An object of the present invention is to provide a receptacle for oil or grease, the receptacle being provided with means for regulating the feeding of the lubricant, said means including a novel manually controlled valve and presser disk, the exposed actuating portions of said means being housed within a cap carried by the receptacle so as to prevent the access of dust to the lubricant.

With the above objects in view the invention consists of certain novel details of construction and combination of parts hereinafter fully described and claimed, it being understood that various modifications may be made in the minor details of construction within the scope of the appended claims.

In the accompanying drawings forming part of this specification:—Figure 1 is a longitudinal sectional view through the device with the valve in position for closing the outlet. Fig. 2 is a cross sectional view taken on the line 2—2 Fig. 1. Fig. 3 is a cross sectional view taken on the line 3—3 Fig. 1.

The lubricator consists of a cylindrical receptacle 13 provided centrally in the bottom with an exteriorly threaded outlet nipple 14 designed to screw into the bearing to which the lubricant is applied. An interiorly threaded cap 15 closes the top of the receptacle and is provided exteriorly with wrench faces 16 to which an ordinary wrench may be applied for unscrewing the cap in order to replenish the lubricant. An exteriorly threaded cylindrical plug 17 is screwed into the receptacle at the open end thereof and is provided on the outer face with spaced lugs 18 which forms means for applying or removing the plug. The plug is provided with a smooth centrally disposed opening 19.

A tube 20 is journaled in the opening 19 and is provided with a stop pin 21 which bears against the inner face of the plug, and is further provided with radial projections 22 which bear against the outer face of the plug, the pin and projections preventing movement of the tube longitudinally through the opening, the projections further forming means for rotating the tube. Screw threads 23 are formed on the outer face of the tube, and mounted upon the tube is a presser disk 24 having a centrally disposed threaded opening 25 receiving the threads of the tube. The disk conforms to the bore of the receptacle and is provided with oppositely disposed radial notches 26 in which fit guide lugs 27 projecting from the inner wall of the receptacle. By rotating the tube the presser disk is moved in the direction of the outlet nipple and forces the lubricant under pressure through the outlet nipple 14.

A valve stem 28 is disposed within the tube 20, and is provided for a portion of its length with screw threads 29 to engage mating screw threads formed in the bore of the tube. The stem is provided at the inner end with a plug valve 30 adapted to close the bore of the outlet nipple 14, and is furthermore provided at the outer end with wings 31 which form means for rotating the stem whereby to advance or retract the same in the tube and close the valve to any desired extent in order to regulate the feeding of the lubricant through the outlet nipple.

It will be observed that the means for rotating both the tube and the valve stem are exposed on the outer face of the plug 17, and are completely housed within the cap 15 which threads on to the lubricant receptacle, the said means being thus protected from contact with dust or other foreign matter, and access of the latter into the lubricant positively prevented.

Formed in the side of the receptacle 13 is an oil opening 32 closed by a screw plug 33. Upon advancing the presser disk to its upper limit of movement an oil can spout may be inserted in the oil opening and the receptacle filled up to the opening, the presser disk then being moved downward to feed the oil under pressure through the casing outlet 14.

What is claimed, is:—

1. A lubricator including a receptacle, an

outlet disposed in the bottom thereof, a removable plug forming a closure for the top of said receptacle, a removable cap on said receptacle forming a housing for said plug, a tube revolubly mounted in said plug, means for rotating said tube, a presser disk threaded upon said tube, interfitting guide means between said disk and said receptacle, a valve stem in said tube having a valve to close said outlet, means for rotating said stem, and a screw thread connection between said stem and the inner wall of said tube.

2. A lubricator including a tubular receptacle, an outlet nipple disposed in the bottom thereof, a removable plug forming a closure for the top of said receptacle, a cap on said receptacle housing said plug, an exteriorly threaded tube having a smooth end portion revolubly mounted in a smooth bore opening formed in said plug, means on said end portion for manually rotating the tube, a presser disk having a threaded opening receiving the threaded portion of said tube, interfitting guide means between the edge of said disk and the inner wall of said receptacle, a valve stem in the bore of said tube having a valve at the lower end adapted to close the bore of said outlet nipple, and having at the upper end means for rotating the stem, and a screw thread connection between said stem and the inner wall of said tube.

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

WILLIAM S. McCLUNG.

Witnesses:

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E. E. HOAGLAND.