W. A. KEITH.

GREASE CUP.

APPLICATION FILED NOV. 13, 1912.

1,069,144.

Patented Aug. 5, 1913.

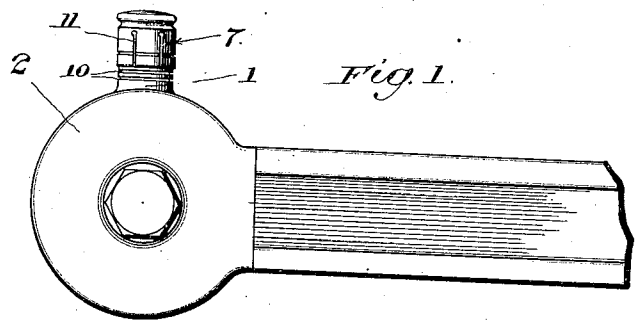

Fig. 1.

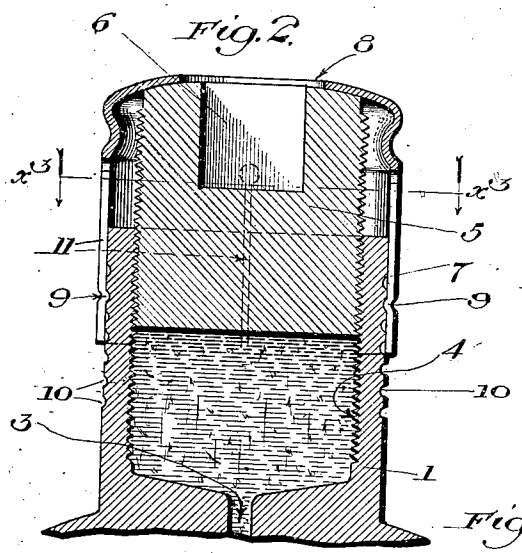

Fig. 2.

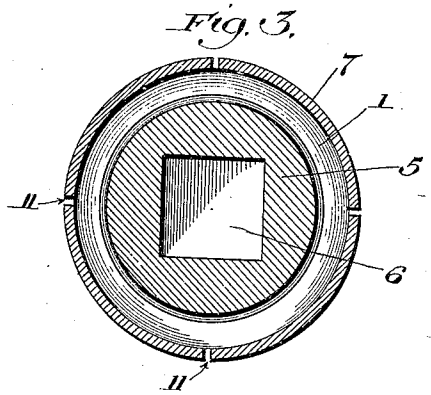

Fig. 3.

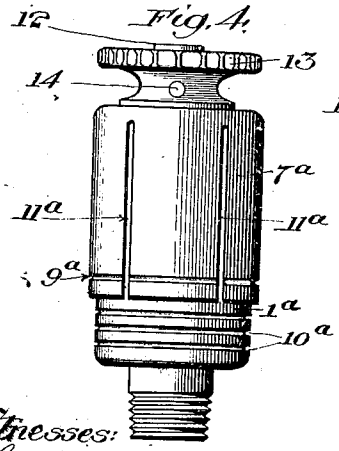

Fig. 4.

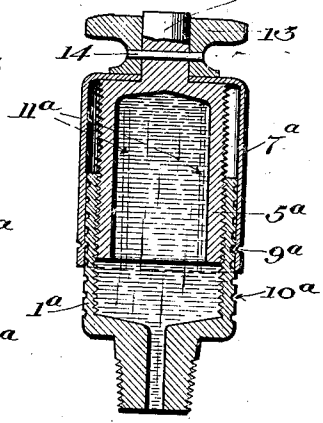

Fig. 5.

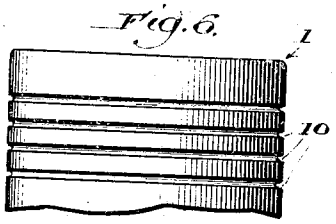

Fig. 6.

Witnesses:
Lulu D. Alter.
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Inventor:
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by Lyon & Hackley Attys.

UNITED STATES PATENT OFFICE.

WALTER A. KEITH, OF LOS ANGELES, CALIFORNIA.

GREASE-CUP.

1,069,144. Specification of Letters Patent. Patented Aug. 5, 1913.

Application filed November 13, 1912. Serial No. 731,210.

To all whom it may concern:

Be it known that I, WALTER A. KEITH, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented a new and useful Grease-Cup, of which the following is a specification.

This invention relates to a grease cup especially adapted for use on motors, but which is equally well adapted for use in all other places where grease cups are employed.

The main object of the present invention is to provide a construction which will prevent the follower plug from becoming lost.

Referring to the drawings: Figure 1 is a side elevation of a rod equipped with one form of the invention. Fig. 2 is an enlarged vertical section through the grease cup, showing one form. Fig. 3 is a section on line x^3—x^3, Fig. 2. Fig. 4 is a side elevation of another form. Fig. 5 is a vertical section through the second form. Fig. 6 is a side elevation of the upper portion of the cup in the first form.

The device comprises a cup 1 which is secured in any desired manner to the part to be lubricated, being herein shown as formed integral with the rod 2, and having orifices 3 through which the grease is fed to the bearing. The cup has internal threads 4 and screwed therein is a follower plug 5. This may be provided with any desired means for positively turning it and as herein shown, is provided with a square recess 6 to receive a wrench, not shown.

To prevent the plug from becoming lost, I provide a retaining cap 7 which projects over the upper end of the plug 5, but has an orifice 8 which permits of the insertion of the wrench. The orifice 8 is sufficiently large to permit rotation of the wrench without disturbing the cap 7. The cap 7 near its lower rim is provided with a bead 9 which is adapted to grip in any one of several shallow grooves 10 which are formed around the cup 1. In order to give springiness to the side walls of the cup, several slits 11 are formed therein. The bead 9 grips the grooves 10 with sufficient strength to prevent the accidental removal of the cap 7 and the cap 7 prevents the plug 5 from accidentally unscrewing. Whenever it is desired to remove the plug, a wrench is inserted in the square recess 6 and by unscrewing the plug 5, the upward movement of the plug will lift the cap 7, forcing its bead 9 out of the retaining groove and enable the cap to be completely withdrawn, thereby permitting the follower plug to be removed for the insertion of fresh grease, after which the plug 5 is screwed down until the proper compression is placed on the grease and then the cap 7 is placed in position by simply pressing down on its upper end until arrested by the plug. Whenever the plug is turned up to feed more grease, a simple downward blow of the hand on top of the cap is all that is required to follow up the new position of the follower plug. The operation of the retaining cap is thus reduced to the minimum effort. The ordinary method of retaining the follower plug consisting of a lock nut, entails the use of a wrench on the lock nut each time the follower plug is regulated; the present device requires but a tap of the hand to put it in place and its removal is automatically accomplished whenever the follower plug 5 is unscrewed.

In the form shown in Figs. 4 and 5, the follower plug 5^a is made hollow and has a short stem 12 on which a handle 13 is secured by a pin 14. Revolubly mounted on the pin 12 is the cap 7^a which is held from longitudinal upward movement by the handle 13 and rests upon the top of the plug 5^a. The cap 7^a has a bead 9^a which is adapted to engage in any one of the grooves 10^a formed in the cup 1^a. The cap 7^a is also provided with several longitudinal slits 11^a to provide the necessary spring. In this form the cap does not revolve when the plug 5^a is revolved, but moves up and down therewith automatically.

What I claim is:

1. A grease cup comprising a cup, a follower plug screwed therein, a retaining cap over said follower plug, and telescoping with the cup, the walls of the cup having external circumferential grooves, and the side wall of the cap having a circumferential bead which engages in a groove on the cup.

2. A grease cup comprising a cup, a follower plug screwed therein, a retaining cap over said follower plug, and telescoping with the cup, the walls of the cup having external circumferential grooves, and the side wall of the cap having a circumferen-

tial bead which engages in a groove on the cup, the wall of the cap being slit longitudinally.

3. A grease cup comprising a cup, a follower plug screwed therein, a retaining cap over said follower plug, and telescoping with the cup, the walls of the cup having external circumferential grooves, the side wall of the cap having a circumferential bead which engages in a groove on the cup, and means at the upper end of the follower plug for enabling it to be rotated.

4. A grease cup comprising a cup, a follower plug screwed therein, a retaining cap over said follower plug, and telescoping with the cup, the walls of the cup having external grooves, the side walls of the cap having a bead which engages in a groove on the cup, and means at the upper end of the follower plug for enabling it to be rotated independently of the cap.

5. A grease cup comprising a cup, a follower plug screwed therein, a retaining cap over said follower plug, and telescoping with the cup, the walls of the cup having external grooves, the side walls of the cap having a bead which engages in a groove on the cup, said follower plug being formed with means at its top to receive a wrench, said cap having an orifice giving access to said last means.

In testimony whereof, I have hereunto set my hand at Los Angeles, California this 29 day of October, 1912.

WALTER A. KEITH.

In presence of—
G. T. HACKLEY,
MARTHA M. LANGE.