

No. 864,147.

PATENTED AUG. 27, 1907.

J. J. AULL.
GREASE CUP.

APPLICATION FILED FEB. 8, 1907.

Fig. 1.

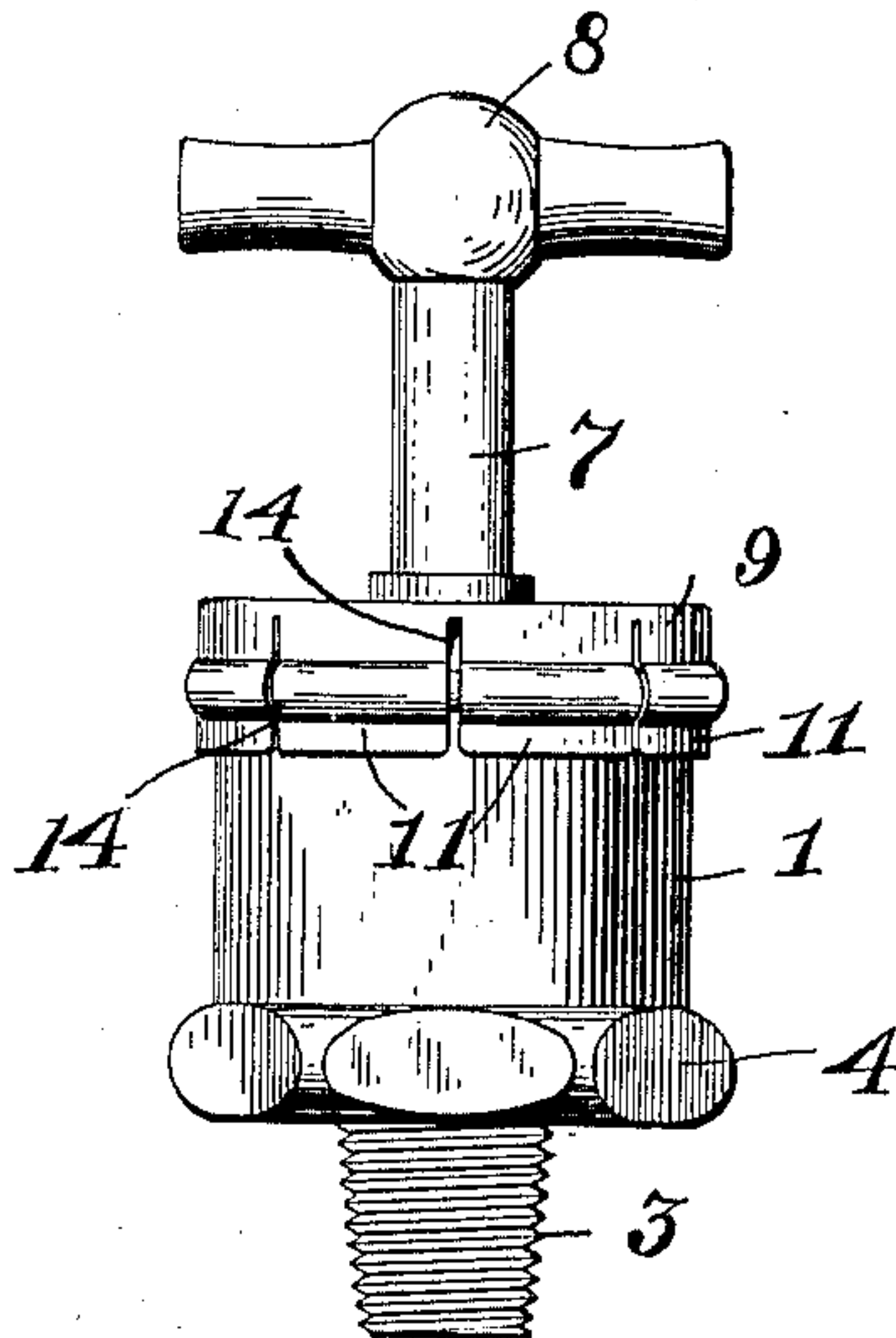
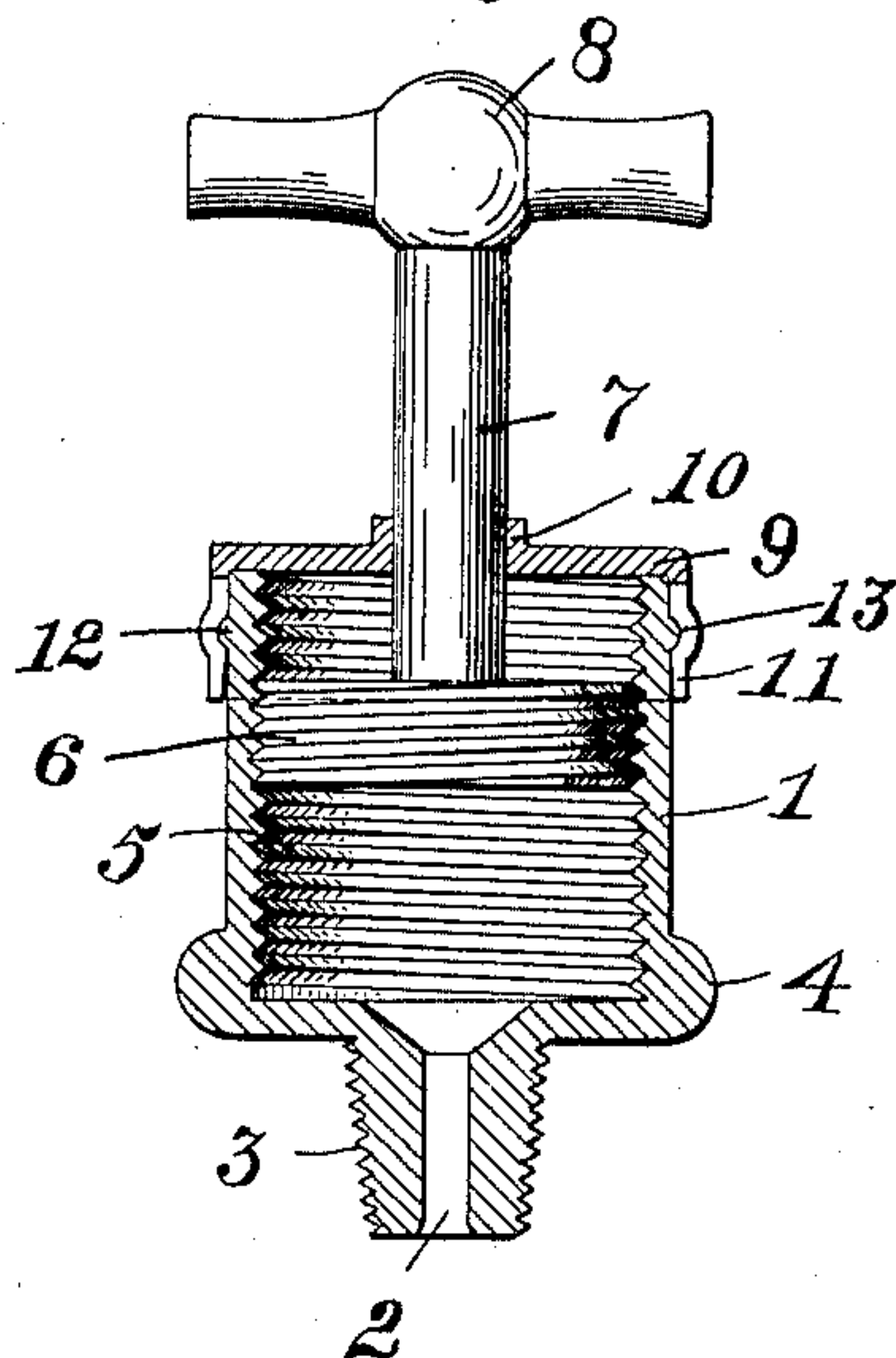


Fig. 2.



Attest:
B. G. Phillips
Edward N. Sutton

Inventor,
Jerome James Aull.
By Spear Middleton Donaldson Spear
Attys.

UNITED STATES PATENT OFFICE.

JEROME JAMES AULL, OF CINCINNATI, OHIO, ASSIGNOR TO THE LUNKENHEIMER CO., OF CINCINNATI, OHIO.

GREASE-CUP.

No. 864,147.

Specification of Letters Patent.

Patented Aug. 27, 1907.

Application filed February 8, 1907. Serial No. 356,469.

To all whom it may concern:

Be it known that I, JEROME JAMES AULL, a citizen of the United States, residing at Cincinnati, Ohio, have invented certain new and useful Improvements in Grease-Cups, of which the following is a specification.

My invention relates to improvements in lubricators of the type known as grease cups.

The object of the invention is to provide a very simple form of cup with a cover for tightly closing the filling opening which may be quickly applied and when so applied will be held against all danger of accidental displacement, while at the same time it may be readily removed when the cup is to be refilled.

With these and other objects in view the invention includes the features of construction hereinafter described and particularly set forth in the appended claims.

An embodiment of the invention is illustrated in the accompanying drawing, in which,—

Figure 1 is a side elevation. Fig. 2 is a sectional view.

In this drawing, the numeral 1 indicates the body of the cup which is closed at its lower end, except for the delivery opening 2 through which the grease is forced to the lubricator bearing. A threaded nipple 3 which extends from the bottom of the cup, and through which the delivery opening passes, serves as a convenient means for securing the cup to the bearing member, the lower portion of the body of the cup being preferably provided with a polygonal shaped flange 4 for the application of a wrench or like tool, by which the cup may be attached or removed.

The cup is open at its upper end and is provided on its interior wall with screw threads as shown at 5 which are engaged by a plunger 6 which has a stem 7 and suitable operating handle 8. By this latter, after the cup has been filled with grease, the plunger may be screwed down at suitable intervals to force the grease through the delivery opening.

In order to exclude all dust and dirt from the cup, a cap 9 is provided which has a central opening 10 through which the stem of the plunger passes, and this cap is provided with a spring or yielding annular flange 11 which is designed to frictionally engage the upper end of the cup and thereby retain the cap in place.

I prefer to provide the cup near its upper end with an annular bead 12 and the spring flange of the cap with a corresponding internal groove 13, this flange being slotted or split at certain intervals, as indicated at 14 to permit it to yield the more readily as it is being sprung into place. A cap so constructed may be very easily sprung into engagement with the cup and when so applied will be securely held against all danger of accidental displacement and will effect a tight closure, but would be exceedingly difficult to remove by the fingers alone. It will be noticed however that I extend the threads on the interior of the cup clear to the upper edge; thus when it is desired to remove the cap all that it is necessary to do is to continue to unscrew the plunger until it bears against the interior of the cup and further unscrewing thereof will cause the cap to be sprung out of engagement with the bead whereupon it can be removed with the plunger for the refilling of the cup. When the cup has been filled the plunger is screwed in until its upper face is just below the upper edge of the cap when the cap may be again readily sprung into engagement with the retaining bead.

Having thus described the nature of my invention, what I claim is:—

1. A grease cup comprising a body having a filling opening at one end and a delivery opening at the opposite end, a cap having a frictional engagement with the filling end of the body, a plunger within the body, and means whereby said plunger may be moved in one direction to expel the grease and in the opposite direction to remove the cap, substantially as described.

2. A grease cup comprising an interiorly threaded body open at one end and having a delivery orifice at the opposite end, a yielding cap having a spring lock engagement with said head, and a threaded plunger fitting the threads in the body and having a stem extending through an opening in the cap, said plunger having its inner face adapted for expelling the grease on movement in one direction and its upper face adapted for contact with the inner face of the cap in the opposite direction whereby said cap may be removed by the plunger.

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

JEROME JAMES AULL.

Witnesses:

HOWARD EVANS,
SAM'L MOYER.