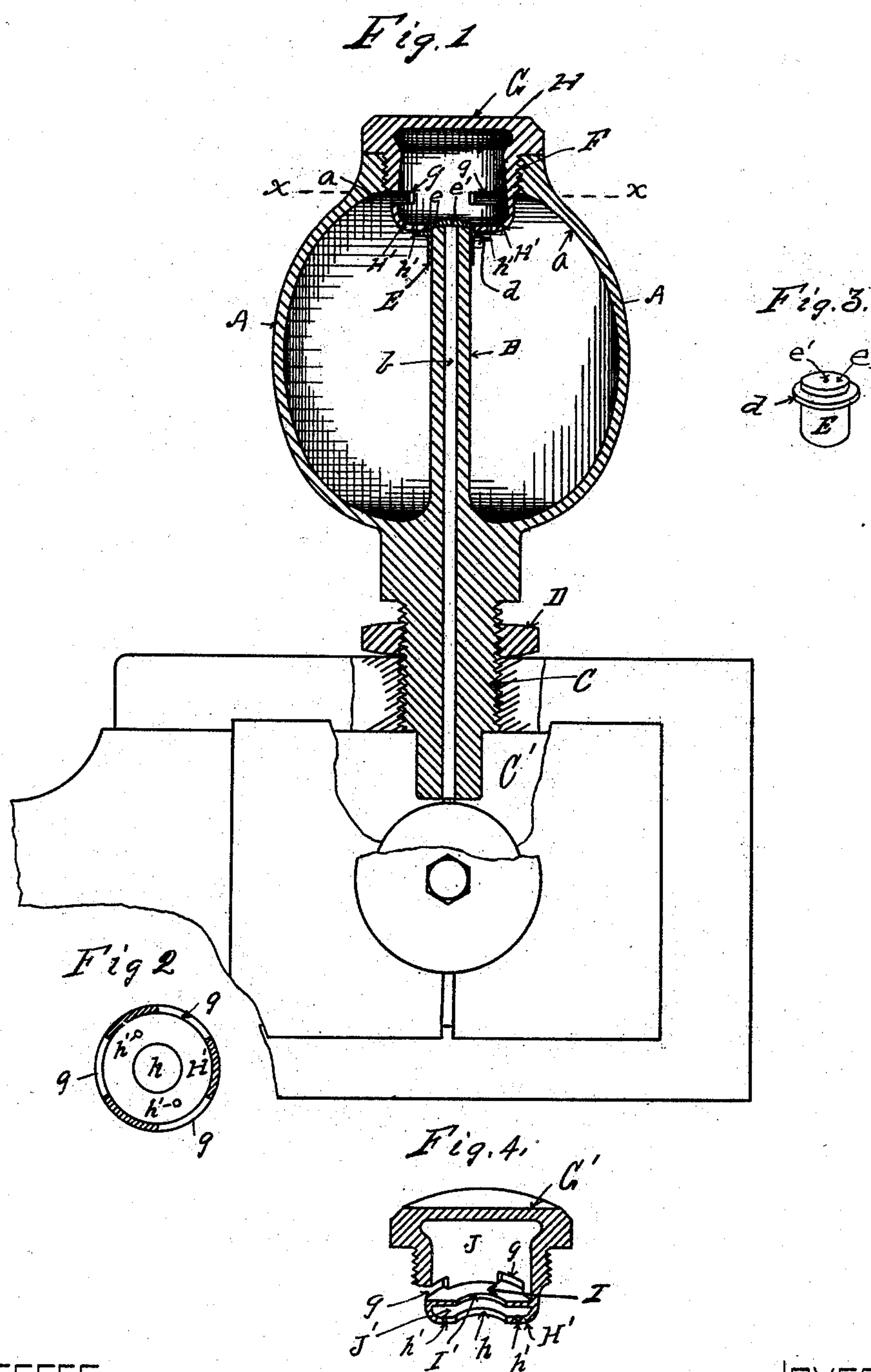


(No Model.)

J. R. DROZESKI.
LUBRICATOR.

No. 505,597.

Patented Sept. 26, 1893.



WITNESSES

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JULIUS R. DROZESKI, OF ERIE, PENNSYLVANIA.

LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 505,597, dated September 26, 1893.

Application filed July 20, 1893. Serial No. 481,008. (No model.)

To all whom it may concern:

Be it known that I, JULIUS R. DROZESKI, a citizen of the United States, residing at the city of Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Wrist-Pin Oil-Cups; 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, forming part of this specification.

My invention consists in the improvement in wrist-pin oil cups, hereinafter set forth and explained and illustrated in the accompanying drawings in which—

Figure 1. is a vertical central section of one of my improved oil cups, secured to a wrist-pin box. Fig. 2. is a transverse section of the chambered cap of the oil cup on the line x, x , in Fig. 1. Fig. 3. is a perspective view of a removable cap for the oil tube thereof. Fig. 4. is a sectional view of a modified construction of the chambered cap of the oil cup.

In the construction of my improved oil cup I make the shell A thereof of an oval shape with an oil tube B therein reaching nearly to the top thereof. The lower part of the shell A is provided with a screw threaded stem C adapted to be screwed into a wrist-pin box C'; a lock nut D is also provided on the stem C in the usual manner. The passage b in the tube B, through which the oil is supplied to the box, extends down through the stem C, and for the top of the tube B, I provide a removable cap E (Fig. 3) which fits closely over the top of the tube B and is adapted to be removed therefrom as and for the purpose hereinafter set forth. I also, preferably make the top e of this cap slightly oval in shape, and make a small central opening e' therein, through which the oil passes to the passage b in the tube B. I also make a collar d on the cap E as and for the purpose hereinafter set forth.

In the top of the shell A of the cup, I make a screw threaded opening F, and in this opening I screw a plug or cap G provided with a chamber H. The bottom H' of this chamber

is provided with a central opening h which fits closely over the top of the cap E on the tube B, and contacts with the collar d on said cap, so as to hold it firmly in place on the top of the tube B. The bottom H' of the chamber H is also provided with small holes h' as and for the purpose hereinafter set forth.

In the sides of the chamber H, preferably in line with the inside a of the upper end of the shell A, I make openings g in the periphery of the plug or cap G, through which the oil in the cup is thrown into the chamber H by the oscillation of the cup, the shape of the inside surface a of the shell being such that the oil following up around the curved sides of the cup at each oscillation thereof, passes on through the openings g into the chamber H, from whence it passes down through the small opening e' in the cap E, into the passage b and thence to the wrist-pin box C' to be lubricated.

It will be observed that the top of the cap E is slightly oval. The object of this construction is, that any sediment in the oil used will not readily accumulate thereon and obstruct the small opening e' therein, but will be washed off therefrom by the movement of the oil caused by the oscillation of the cup. These caps E are also interchangeable, so that caps having different sized openings e' can be used so that the feed can be regulated thereby.

In the bottom of the chamber H, I also make one or more small holes c through which the oil in the chamber H will speedily drain out of the chamber, when the oscillation of the cup ceases.

In Fig. 4, I show a modified construction of the chambered plug or cap of my improved oil cup. In this construction I place a diaphragm I in the chamber on a level with the lower edges of the openings g in said chamber, so as to form an upper chamber J and a lower chamber J', and through this diaphragm I make a central opening I' through which the oil passes downward into the lower chamber J', from which chamber it passes downward, when in operation, through the small opening e' in the tube cap E, as hereinbefore described, the construction of this plug or cap G' being the same in all other

respects as the one first hereinbefore described.

Having thus fully described my invention, so as to enable others to construct and operate the same, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a wrist-pin oil cup, an oval cup for retaining a supply of oil, a tube in said cup, for supplying oil to the box to be lubricated, extending upward nearly to the top of the cup, a removable cap having a minute opening therein on the top of said tube, a removable plug or cap having a chamber therein in the upper part of said oil cup, an opening in the bottom of said chamber communicating with the minute opening in the cap on the top of the upwardly extending tube, and lateral openings in the sides of the chamber communicating with the upper part of the

inside of the oil cup, substantially as and for the purpose set forth.

2. The combination in a wrist-pin oil cup, of a cup having oval sides, an upwardly extending tube B, and a removable cap E on the upper end of said tube having an opening *e'* therein, in line with and of less diameter than said tube, with a screw plug or cap G for said cup, having a chamber H therein, an opening in the bottom H' of said chamber fitting down over the cap E, and lateral openings *g* immediately under the curved inside *e* of the shell A of the cup, substantially as and for the purpose set forth.

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

JULIUS R. DROZESKI.

Witnesses:

G. J. MEAD,
F. J. BASSETT.