(No Model.)

C. H. NUNN.

OIL CUP.

No. 380,659. Patented Apr. 3, 1888.

Fig. 1.

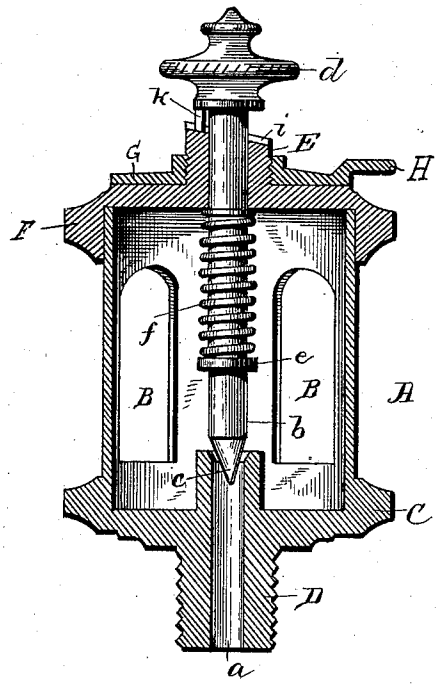
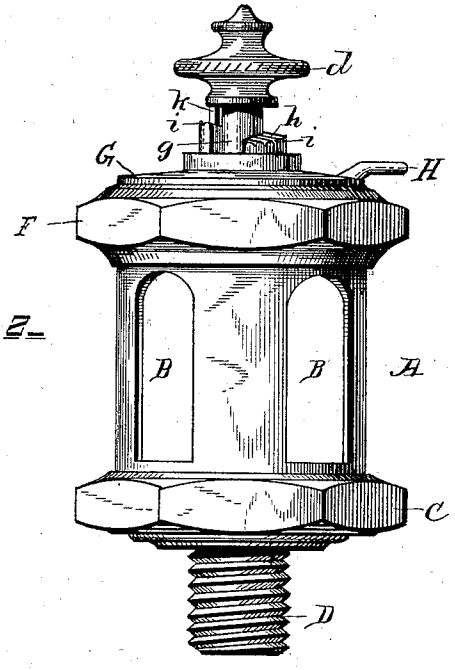


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES H. NUNN, OF ROCHESTER, NEW YORK.

OIL-CUP.

SPECIFICATION forming part of Letters Patent No. 380,659, dated April 3, 1888.

Application filed November 7, 1887. Serial No. 254,532. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. NUNN, a citizen of the United States, residing at Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Oil-Cups; and I do 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 and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in machine-journal lubricators—such as are commonly termed "oil-cups;" and it has for its object to provide a simple and efficient means of accurately regulating the flow of oil to the journal in that class of oil-cups in which an outlet is provided in the bottom of the cup, and the flow of oil is regulated by a needle-valve.

To this end, and to such others as the invention may relate, the same consists in the peculiar combinations, and in the novel construction, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the drawings, and particularly defined in the claim.

In the drawings, Figure 1 is a central longitudinal vertical section of an oil-cup or lubricating-reservoir constructed in accordance with my invention. Fig. 2 is a side view of the same.

Referring to the details of the drawings, A represents the oil-cup, the body of which is cast with the usual openings, as shown, which serve to afford a view of the interior of the glass cylinder. (Not shown, but which is to be of the usual construction.)

C is the base, which is provided at its bottom with a tube-screw, D, by which the cup is attached to the journal-box and through which the oil flows from the interior of the cup to the journal. The outlet *a* is controlled by a centrally-located vertical valve-stem, *b*, provided at its lower end with a needle-valve, *c*. This valve-stem passes centrally through the top of the cup and is provided at its upper end with a milled nut, *d*. The oil-cup is provided with a cap, F. At a point near the lower end of the valve-stem it is provided with a collar or flange, *e*, which serves as a bearing for the lower end of the spiral spring *f*, the opposite end of which bears against the under side of the cap F. The cap F has cast integral therewith a boss or collar, E, which is bored to receive the valve stem cut away at one of its sides, as shown at *g*, and from one side of the space *g* the height of the collar gradually increases in the form of a spiral to the opposite side of the space, thus forming the cam-surface *h*, which is provided with a series of notches, *i*. The lower edge of the milled nut *d* at the upper end of the valve-stem is provided with a downwardly-extending pin or projection, *k*, adapted to engage the notches *i* upon the cam-surface *h*.

The boss or collar E is externally threaded to engage the threads of the cover G, which is provided with a suitable handle, H, and thus dispenses with bolts and nuts and avoids the necessity of screw-threading the cup. The simple screwing of the cover G allows of the ready removal of all the parts.

When it is desired to close the outlet of the cup and thus cut off the supply of oil, the nut *d* is turned so as to cause the pin *k* to occupy the space *g*. The valve-stem is thus forced downward by the action of the spring *f*, and the needle-valve at its lower end is seated within the valve. If it is desired to open the valve a sufficient distance to permit a limited flow of oil, the milled nut is turned so as to cause the pin *k* to engage with the lower notch in the cam-groove, thus slightly raising the needle-valve from the outlet. By turning the nut so as to cause the pin to engage a notch upon a higher plane, the valve-stem will be lifted higher and the oil allowed to flow more freely.

The cup may be filled either by removing the cap F, or a hole (not shown) may be made through both the cover G and the cap F, which hole can be readily closed after filling the cup by turning the cover a short distance to one side, so that the hole in the cap will no longer register with the hole in the cover, as will be readily understood.

Having thus described my invention, what I claim to be new, and desire to secure by Letters Patent, is—

The combination, with the oil-cup, of the cap

F therefor, formed with central boss or collar, E, exteriorly threaded, as shown, and provided upon its upper face with a notched cam-surface, the cover G, having a central orifice threaded to engage the threads of the boss, and provided with a handle, H, and the spring-actuated valve-stem working through said boss and provided outside said cover with a projection, *k*, to engage the cam-surface on the boss, substantially as and for the purpose specified.

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

CHARLES H. NUNN.

Witnesses:
AUGUSTUS W. NUNN,
GUS. C. EMRICH.