

(No Model.)

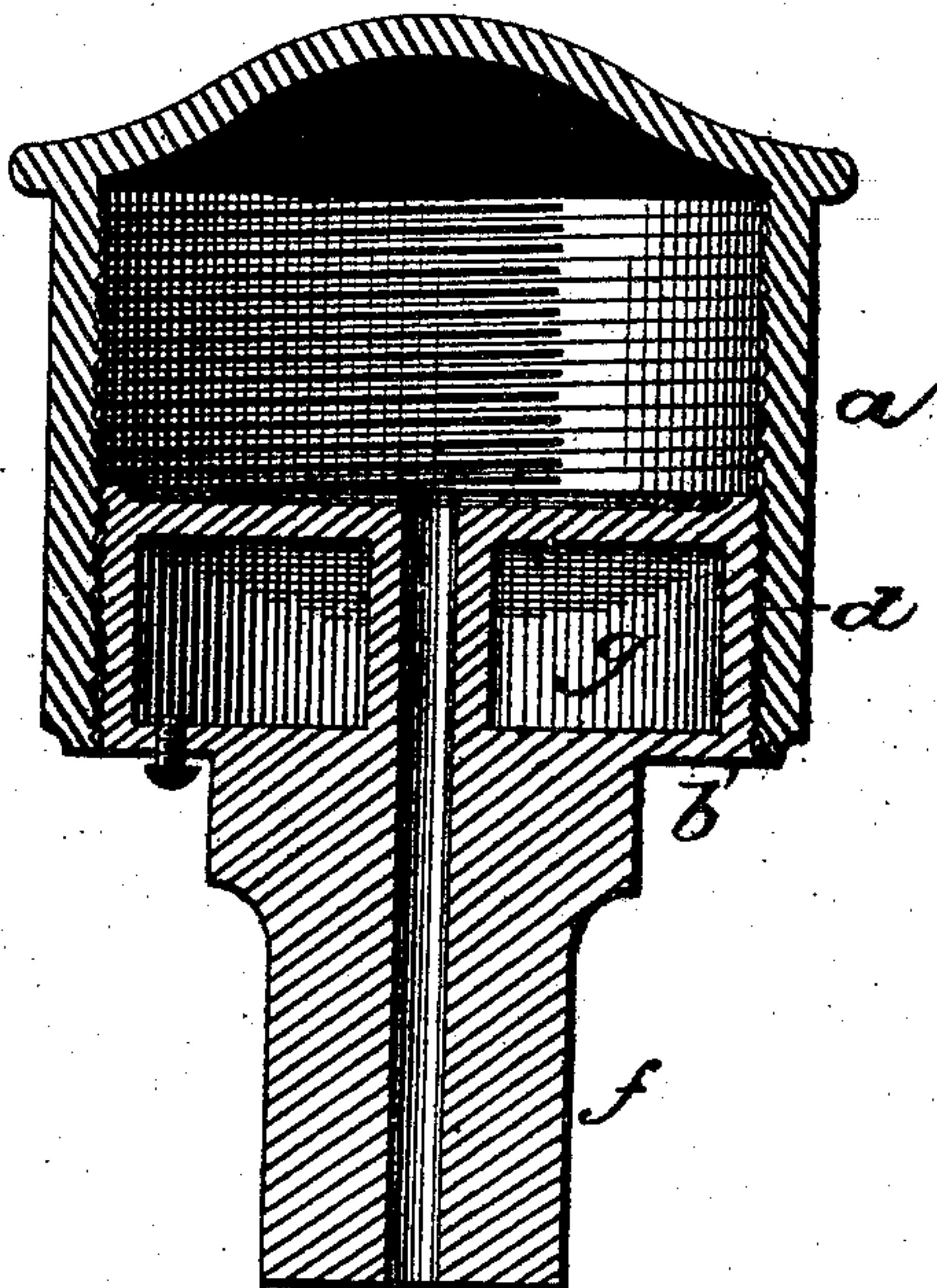
W. K. RHODES.

LUBRICATOR.

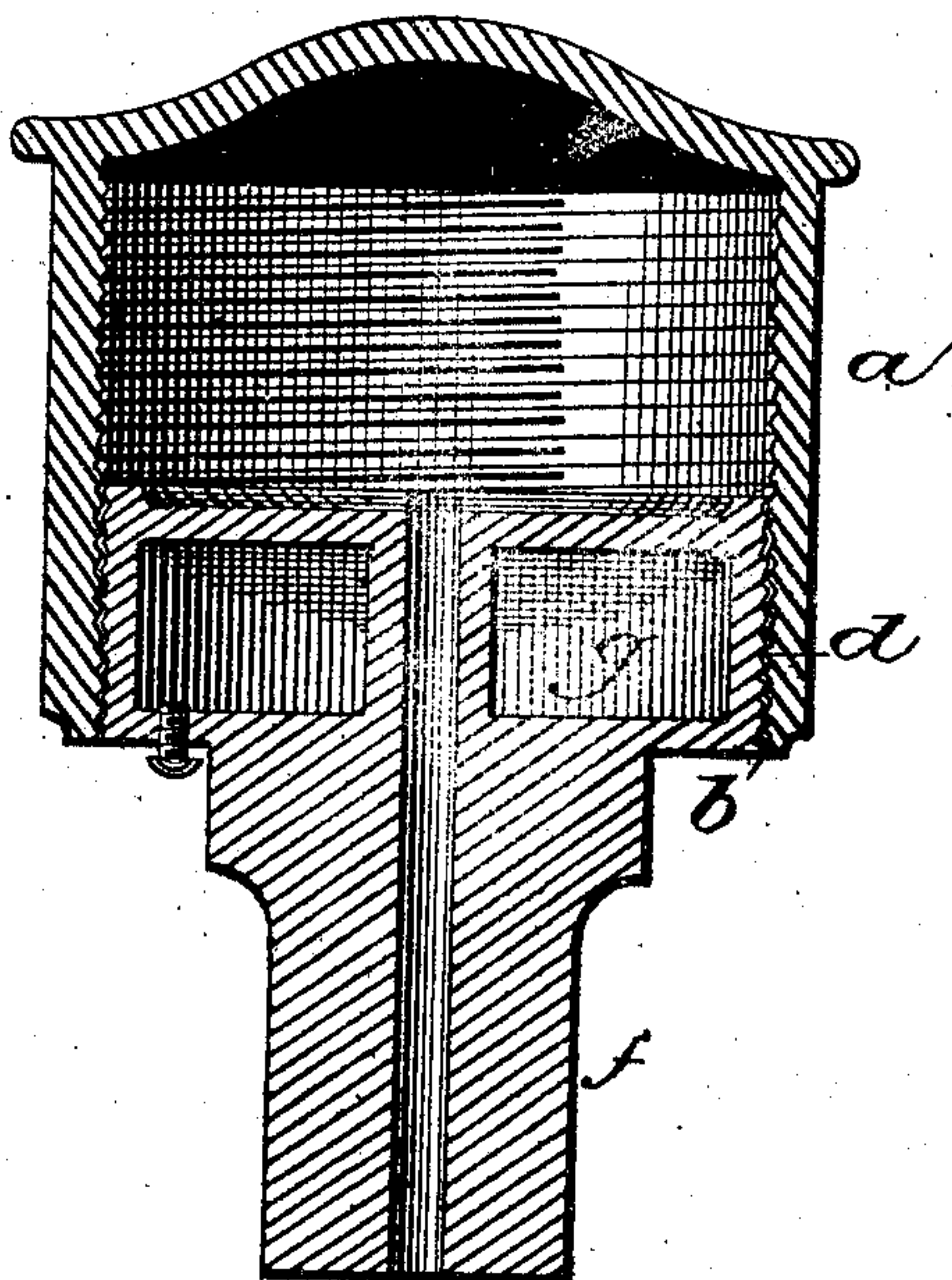
No. 255,813.

Patented Apr. 4, 1882.

*Fig. 1.*



*Fig 2.*



*Witnesses:*

*Wm. H. Goodwin.  
John P. Fenigan,*

*Inventor:*

*William K. Rhodes  
Per attys  
Clifford & Clifford.*



# UNITED STATES PATENT OFFICE.

WILLIAM K. RHODES, OF PORTLAND, MAINE.

## LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 255,813, dated April 4, 1882.

Application filed December 7, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM K. RHODES, of Portland, in the county of Cumberland and State of Maine, have invented certain new and useful Improvements in Lubricators; and I do hereby declare that the following is a full, clear, and exact description of the invention, which 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 letters of reference marked thereon, which form a part of this specification.

Figure 1 is a side sectional elevation. Fig. 2 is the same with chamber for cooling compound.

Same letters show like parts.

My invention relates to lubricating-cups.

It consists, first, of a lubricating-cup capable of a vertical motion up and down for the purpose of opening the cup when it is to be filled and for promoting the discharge of the lubricating compound; second, in the combination of the cup with a stand or base.

The invention is intended to be applied to any part or parts of machines or machinery where it may be usefully employed, as to journals, journal-boxes, axles, &c.

The cup itself is open at the bottom and closed solidly at the top. When being filled the cup is turned open end up. It is then placed down over a base or stand, which is so made as to exactly fill and close the opening of the cup. The stand or base has a duct or channel leading from the opening in the hollow of the inverted cup through a stock or shank, so as to conduct the lubricating compound to the point where it is to be applied. The base has an annular chamber to receive a cooling composition which may act upon the lubricating compound to keep it cool. When the cup is filled with the lubricating compound and placed on its base the air is wholly or nearly exhausted or expelled from the cup. The atmospheric pressure is thus sufficient to keep the lubricating compound in its place in the cup until needed for use—that is, there will be no dripping or running out of the compound until forced out, as hereinafter described. The lubricating

compound is forced down through the duct by pressing or moving the cup downwardly over the base. In proportion as this is done the lubricating compound is forced out through the duct or channel through the base.

A screw-thread may be fitted on the inside of the cup and around the periphery of the base, as shown in the drawings, as a convenient means of working the cup. It is manifest that the downward motion of the cup is the essential thing, and that a variety of well known mechanical methods can be adopted to operate the cup.

I disclaim any lubricators having cylinders and plungers. Their operation is different. The compound, moreover, oozes up between the plungers and the inner periphery of the cylinder, causing fouling and clogging. My invention is exempt from this fault. Further, the cup remains to the degree that it has been depressed, and indicates the condition or amount of the compound remaining after each instance of use.

*a* shows the cup; *b*, the base; *c*, the duct or channel; *d*, the screw-threads; *f*, the stock or shank, by which the device is connected with any part of a machine. *g* shows the chamber for the cooling compound. The method of connection is simply to have a hole to receive the lower end of the stock or shank. In the case of journal a hole in the journal-box or cap over the journal would be the proper place.

I do not claim the screw-cap, broadly, nor its combination broadly with the screw-base.

What I claim as my invention, and desire to secure by Letters Patent, is—

A lubricating-cup composed of the combination of the cup *a*, base *b*, having chamber *g* and duct *c*, and the stock or shank *f*, as herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

WILLIAM K. RHODES.

Witnesses:

WILLIAM HENRY CLIFFORD,  
JOHN P. KERRIGAN.