

(No Model.)

H. W. ENGGREN.
LUBRICATOR.

No. 564,307.

Patented July 21, 1896.

Fig. 1.

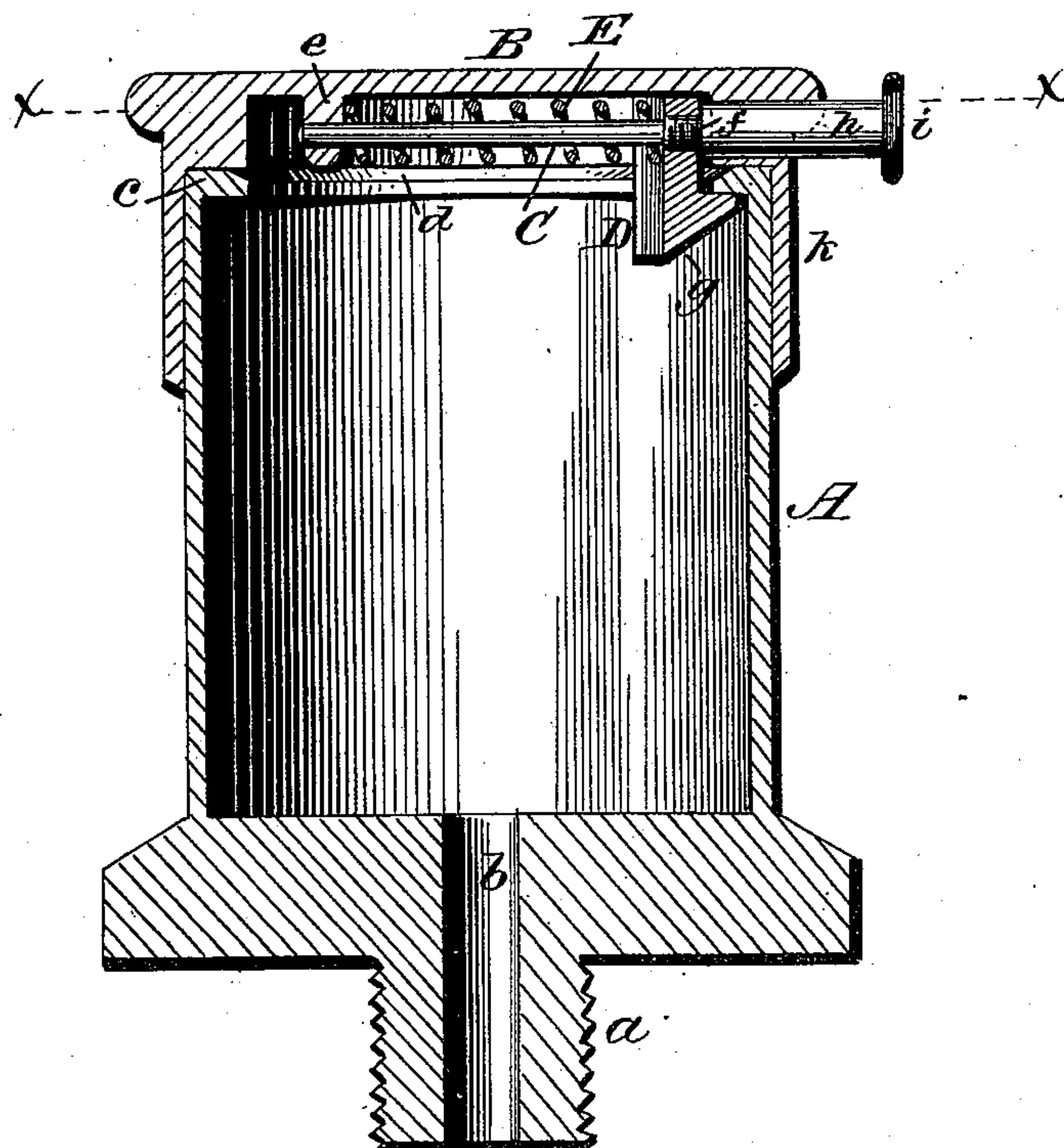
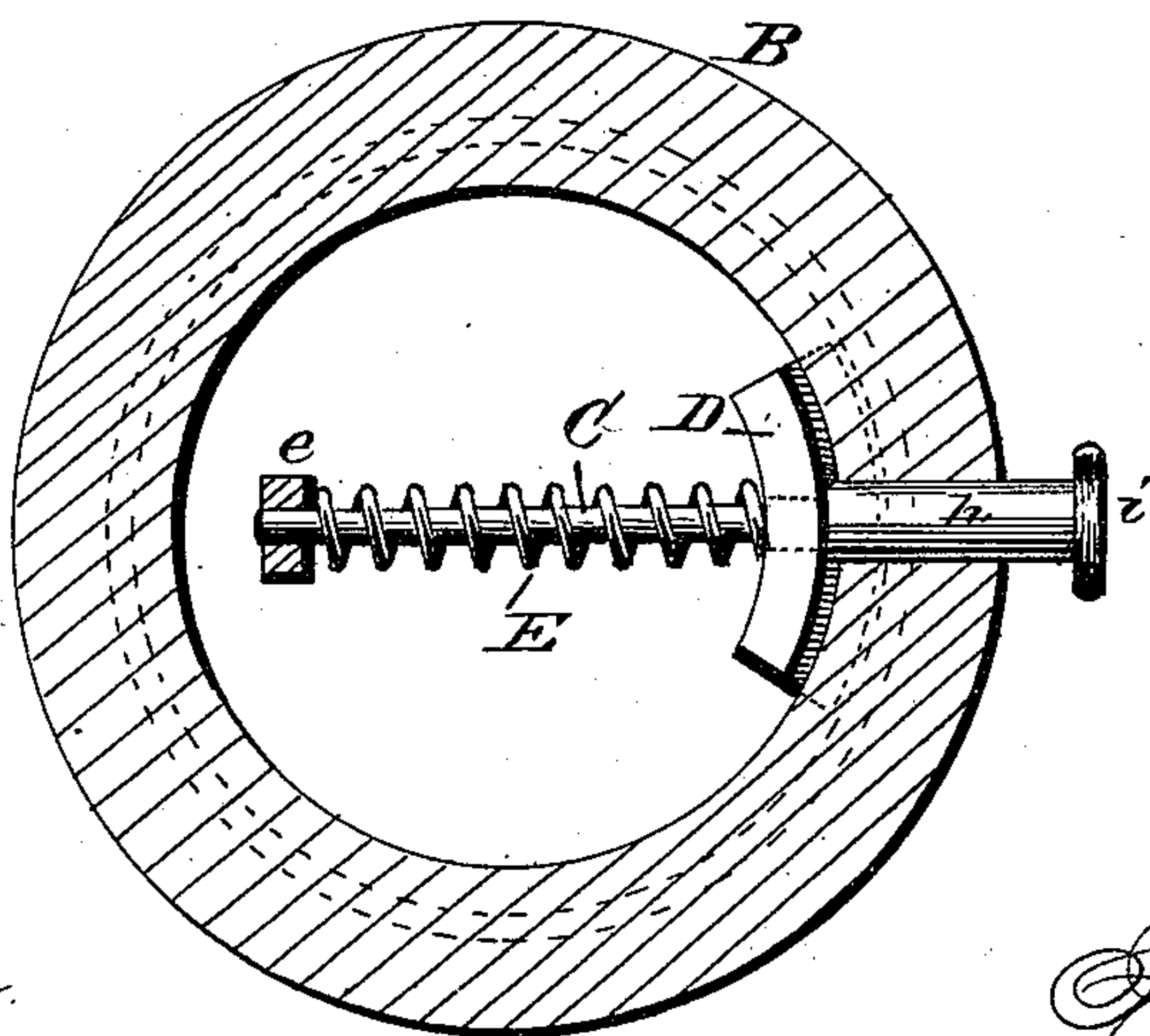


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

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LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 564,307, dated July 21, 1896.

Application filed January 14, 1896. Serial No. 575,524. (No model.)

To all whom it may concern:

Be it known that I, HENRY WALTER ENGGREN, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, 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 same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

The present invention has relation to that class of lubricators or oil-cups for supplying a lubricant to the shafts or other parts of machinery; and the object thereof is to provide a simple and effective means for detachably connecting the cover or lid thereto, as will be hereinafter described and subsequently claimed.

Figure 1 of the drawings represents a sectional elevation of an oil-cup or lubricator embodying my invention; Fig. 2, a horizontal section thereof through the cover and taken on line *x x* of Fig. 1.

In the accompanying drawings, A represents the lubricator or oil-cup provided with the usual screw-nipple *a*, and the central passage *b* for the oil, which may be of any preferred construction. The lubricator or cup A around its open or upper end has an inward-extending and circumferential flange *c* with a bevel upper surface, as shown at *d*.

The cover B fits over the open end of the lubricator and is held securely thereon by the means which will be now described. The cover upon its under side has a downwardly-extending guide *e* for the end of a movable rod C, the opposite end of the rod terminating in a screw-threaded shank *f*, a head *h*, and a knob or push-button *i*. The head *h*, which is of increased diameter over the shank *f*, serves to better guide the rod C when forced forward and forms a stronger connection with the cover B. The screw-threaded shank *f* serves to connect thereto the catch D, which catch is segmental in shape, as shown in Fig. 2 of the drawings.

The segmental or curved shape of the latch C conforms to the curve in the body of the lubricator A, thereby presenting a great and more extended bearing-surface and more securely holding the cover in place.

The catch D has an incline or beveled face *g*, which acts in conjunction with the bevel *d* of the flange *c*, thus admitting the cover be-

ing forced down over the open end of the lubricator and the catch automatically engaging with the flange.

A spiral spring E encircles the rod C, and its ends bear, respectively, against the guide *e* and the catch D, so that when the rod is forced in the direction of the guide to release the catch the coils of the spring will be compressed, and when the cover is raised the spring will force the catch back to its normal position, the same operation of the spring occurring when the cover is secured in place.

In lubricators or oil-cups which are attached to or connected with machinery and which are provided with a removable cover, requires that the cover be held in place by a secure fastening, and when other than a screw cap or cover is employed as a means of holding the cover closed, such as a spring-catch, it was necessary to so construct the catch as would securely hold the cover closed and prevent it from jarring loose and becoming detached by the jarring motion of the moving machinery; and it will therefore be seen the advantage in extending the bearing-face of the catch by forming it segmental to conform to the concavity in the body of the lubricator and extend or lengthen its bearing-surface, thereby holding the cover against displacement by the accidental disengaging of the catch caused by the motion of the machinery.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A lubricator or oil-cup having a screw-nipple at its lower end with a central passage for the escape of the oil and its upper end provided with a horizontally and inwardly extending retaining-flange having its upper side beveled, and a removable and detachable cover having upon its under side a spring-actuated catch of segmental form to extend its bearing-surface and corresponding to the interior curvature of the lubricator and having a bevel segmental shoulder to engage with the retaining-flange, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

HENRY WALTER ENGGREN.

Witnesses:

H. R. SOUZA,

JULES COUILLON.