

No. 661,396.

Patented Nov. 6, 1900.

E. E. DAVIS.
LUBRICATOR.

(Application filed June 29, 1900.)

(No Model.)

Fig. 1.

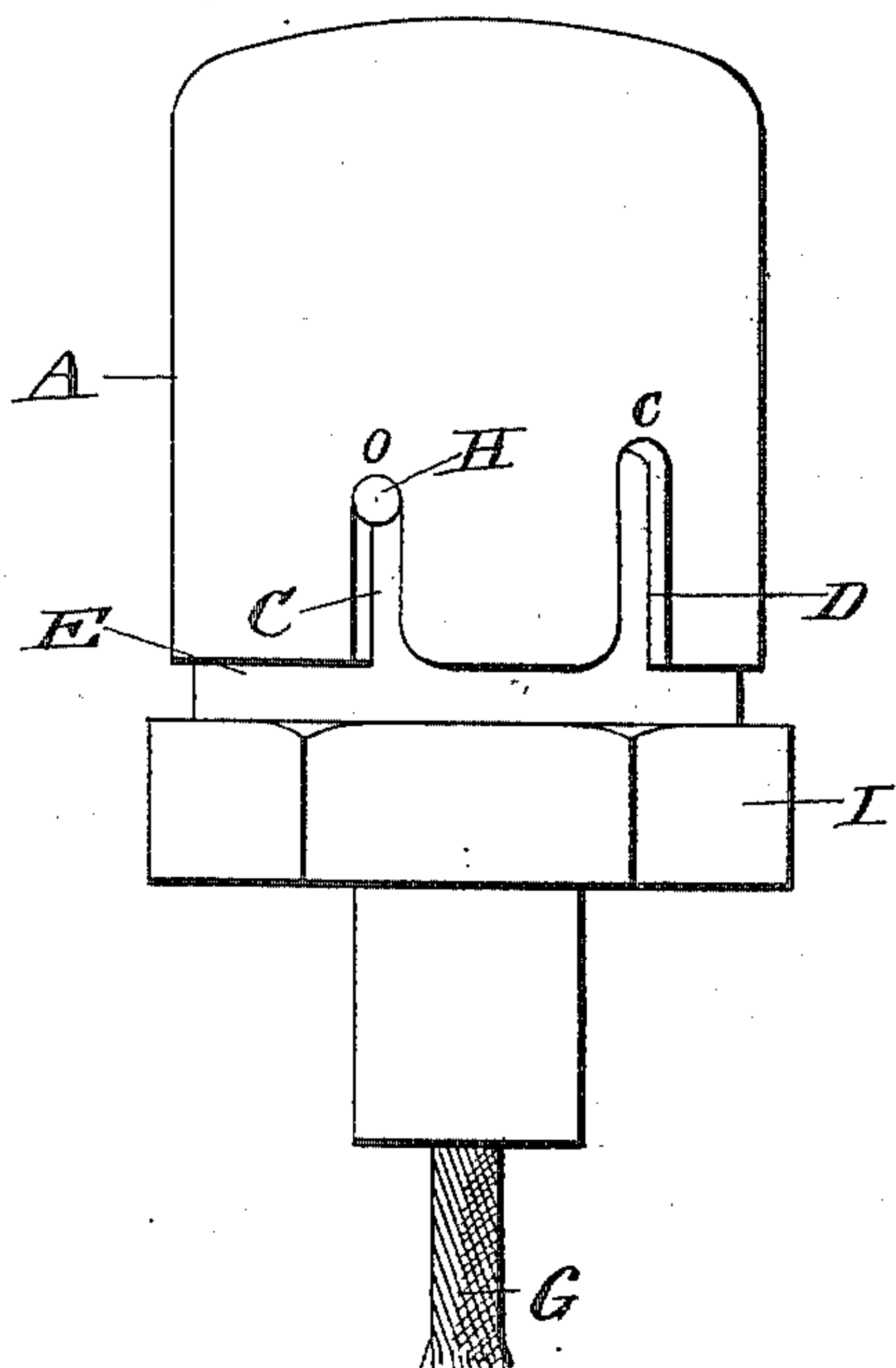


Fig. 2.

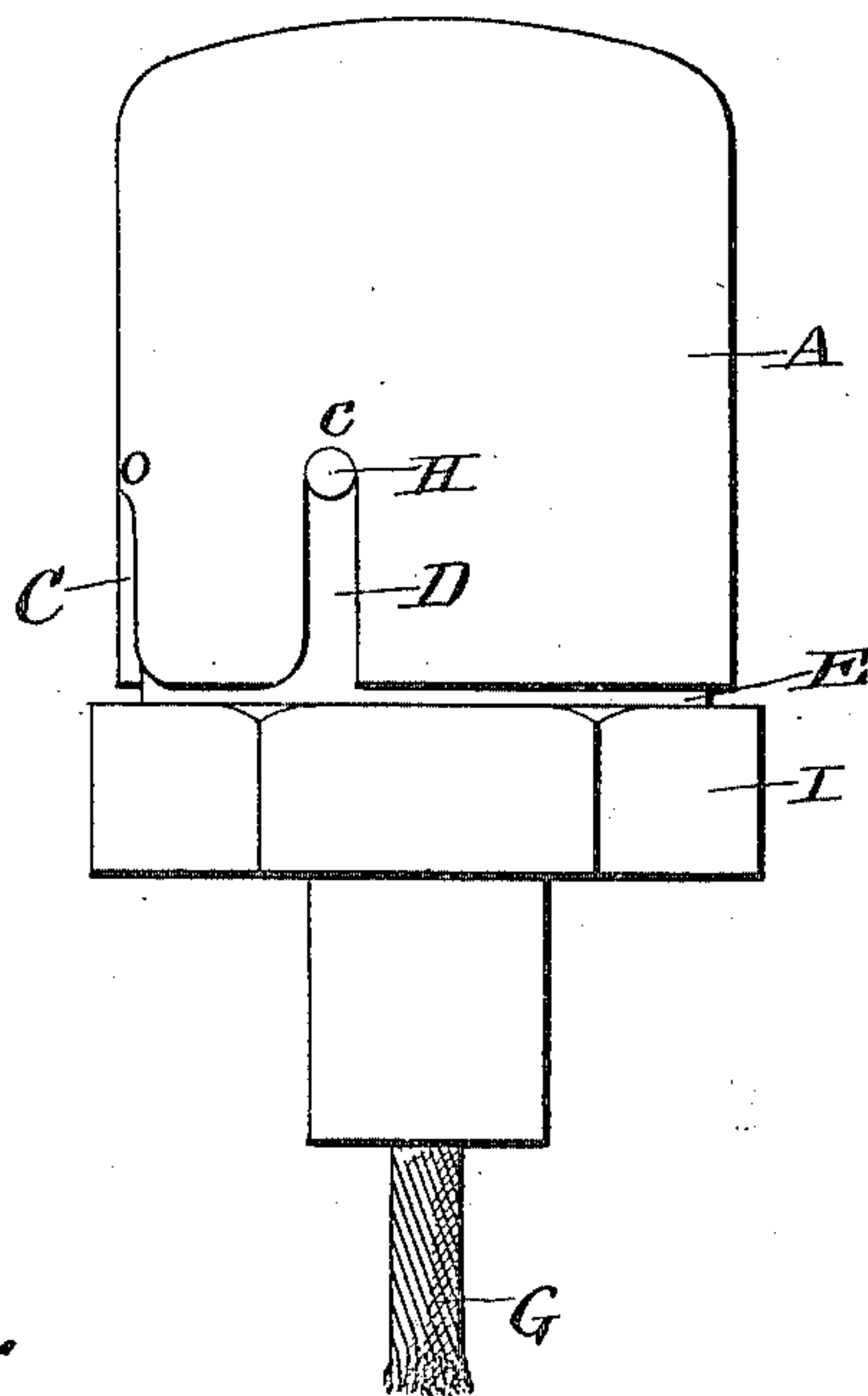
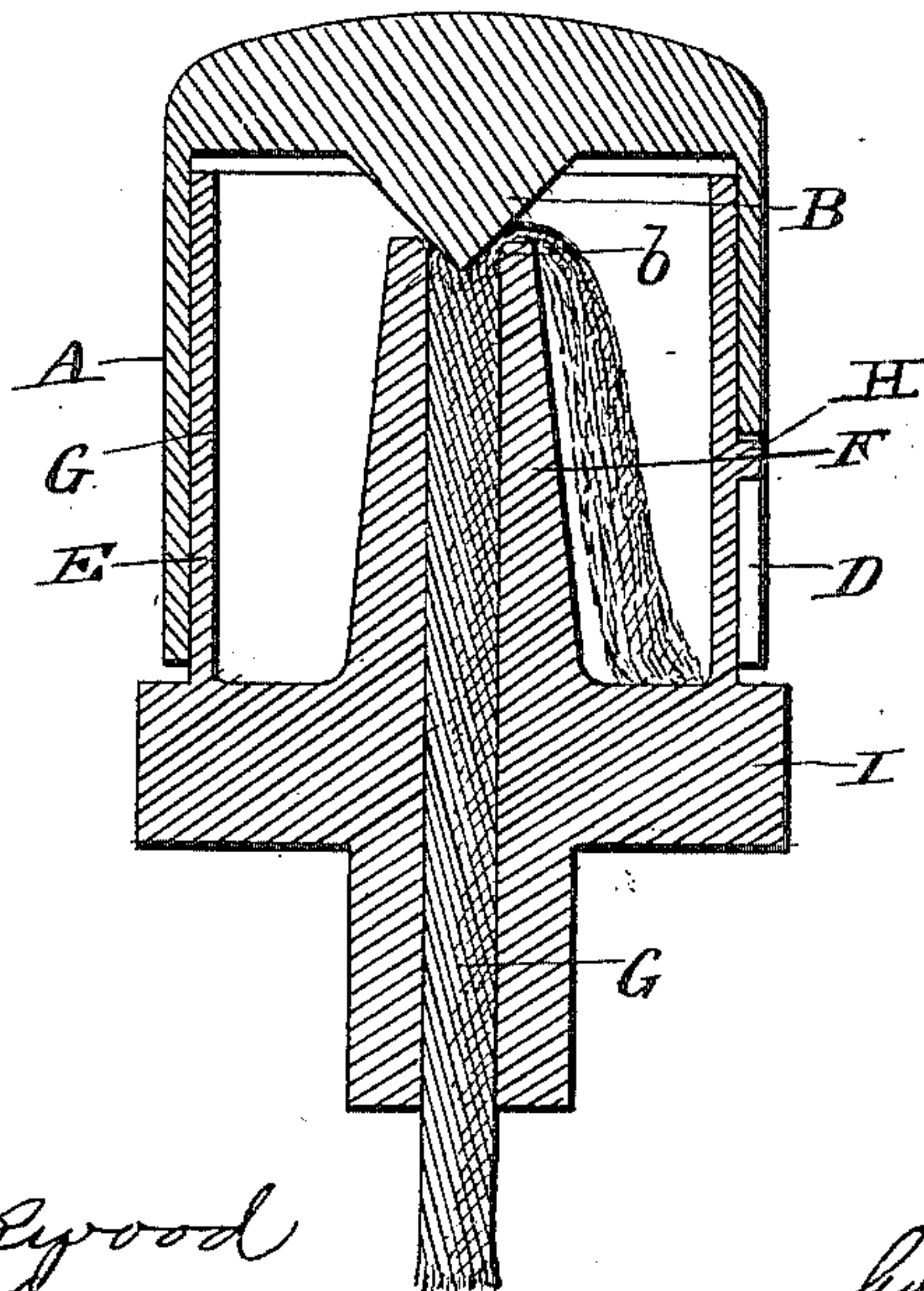


Fig. 3.



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UNITED STATES PATENT OFFICE.

EDWARD E. DAVIS, OF NEW YORK, N. Y.

LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 661,396, dated November 6, 1900.

Application filed June 29, 1900. Serial No. 22,091. (No model.)

To all whom it may concern:

Be it known that I, EDWARD E. DAVIS, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Lubricators, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to oil-cups for lubricating purposes; and its object is the construction of a cup which will obviate the necessity of using tools or complicated mechanism in the feeding, controlling, and shutting off of the supply of oil to the parts to be lubricated and to substitute for such tools and mechanism a device which needs only the raising and lowering of the cover of the oil-cup by hand to regulate the flow of the oil.

To this end my invention consists of an adjustable cup or cover provided with a shut-off attachment which operates by the force of gravity alone to cut off the flow of oil, as hereinafter described and particularly claimed.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 is an exterior view in elevation showing the cover in position when the oil is flowing; Fig. 2, a similar view showing the cover in position when the flow of the oil is cut off; and Fig. 3, a transverse sectional view in elevation of the cover and cup, showing cut-off means in the cover, the cup, wick-tube, and wick and the position of the cup when the flow of oil is cut off.

Referring to the drawings, A is a closed top cover provided with an inner central cone-shaped projecting plug B. One side of the downwardly-extending wall of the cover is provided with two open slots C D, the slot D being longer than the slot C.

E is the oil-cup, provided with a central wick-tube F and wick G. The body of the oil-cup E is also provided on its outer surface with a pin or boss H and at its base with the usual circumferential flange I.

Referring now particularly to Fig. 1, which shows the cover and cup in position when the capillary flow of the oil is continuing, it will be noticed that in such position the pin H is in the shorter slot C, whereby the cover is held above the base-flange I and the closing-

plug B is held above and free from contact with the top of the wick-tube F.

In the position of the parts as indicated in Figs. 2 and 3 the pin or projection H of the cover is in the longer slot D, in which position the conical plug B extends into the wick-tube F, said plug being forced into and held in said tube by the entire weight of the cover, thus pressing the wick tightly against the walls of the tube and effectually shutting off and preventing the flow of the oil through the wick.

It will be noticed that in order that the entire weight of the cover shall be on the wick-tube and wick the slot D is of such length and the position of the boss or pin H is such that when these two parts are engaged the cover will be held above the flange I. The cover is operated by hand, and for convenience the shorter slot C has stamped over it the letter "O" to indicate that when the pin H is in that slot the cup is open, and over the longer slot D the letter "C" is stamped to indicate that when the pin H is in that slot the cover is down and the cup closed and the oil cut off. It will be seen that all the operator has to do to open or close the wick-tube is to raise the cover by hand and turn it to the right or left, so as to permit the slot C or the slot D to register with the pin H, as it may be desired to either close or open the tube, and then let the cover fall by its own weight.

It will be noticed also that the wick-tube F forms a seat for the conical plug B, and for this purpose the wick-tube has a slight inner annular bevel *b* at its top, so that the conical plug might form a valve for closing and cutting off the supply of oil should the wick be dispensed with and the oil be otherwise fed into the central tube. In either or all cases the tube F is a feeding-tube. It will be observed also that as the cut-off is effected by the weight of the cover as it is dropped and rests on the wick the cone-shaped plug is not actually necessary to create sufficient pressure, although a preferable device, as such sufficient pressure might be obtained by the weight alone of the cover on the wick or by a flat or rounded plug or projection in place of the conical plug, or the cover may be provided in place of the plug with a flat surface,

with a seat for the top of the wick-tube or central port F. It is also evident that the two slots might be merged into one, as a bayonet-slot, by which the same operation might
5 be had.

Having thus described my invention, what I claim is—

1. An oil-cup composed of a body for the oil and having an inner feed-tube, in combination with a sliding, gravity-pressure cut-off
10 cover having an inner part to engage with the top of the tube to shut off the feed of oil, substantially as described.

2. In an oil-cup the body provided with an
15 outside projection and an inner oil-feeding tube in combination with a cover having its depending wall slotted, whereby the said cover is adapted to slide upon and engage by gravity with the said projection and with the top
20 of said feed-tube to cut off the flow of oil

therethrough or to be held out of said engagement, substantially as described.

3. In an oil-cup, the body provided with an inner oil-feeding wick-tube, and an outside projection in combination with a cover pro- 25
vided with an inside conically-shaped plug and with outside slots, whereby the said cover is adapted to be raised and rested on said projection through one of said slots, and lowered
on the said projection through the other of said 30
slots, the said conical plug engaging with said wick-tube when so lowered to cut off the flow of the oil, substantially as described.

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

EDWARD E. DAVIS.

Witnesses:

JACOB B. STOUT,
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