No. 615,801.

Patented Dec. 13, 1898.

G. W. BUTLER.

AXLE LUBRICATOR.

(Application filed Jan. 22, 1898.)

(No Model.)

Fig. 1.

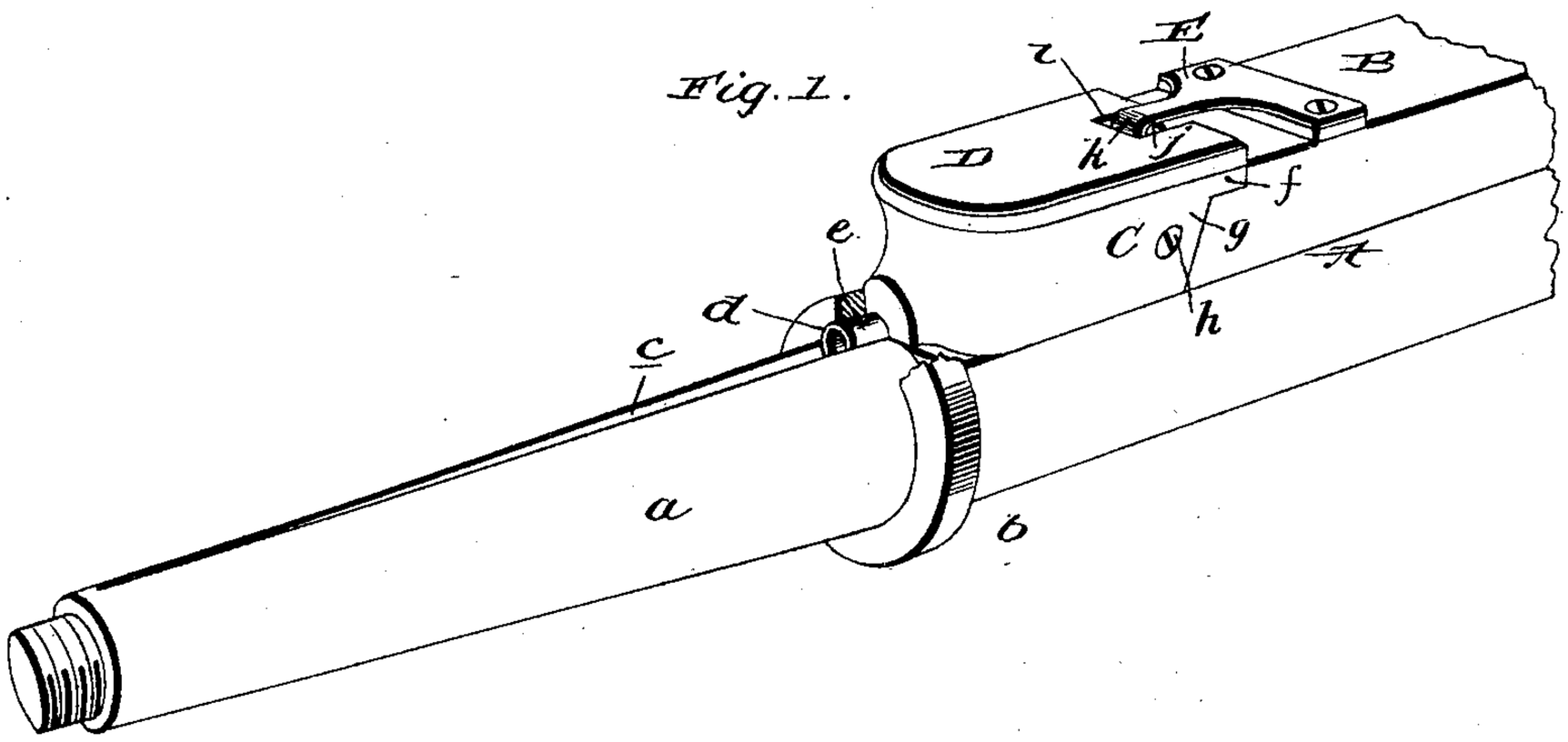


Fig. 2.

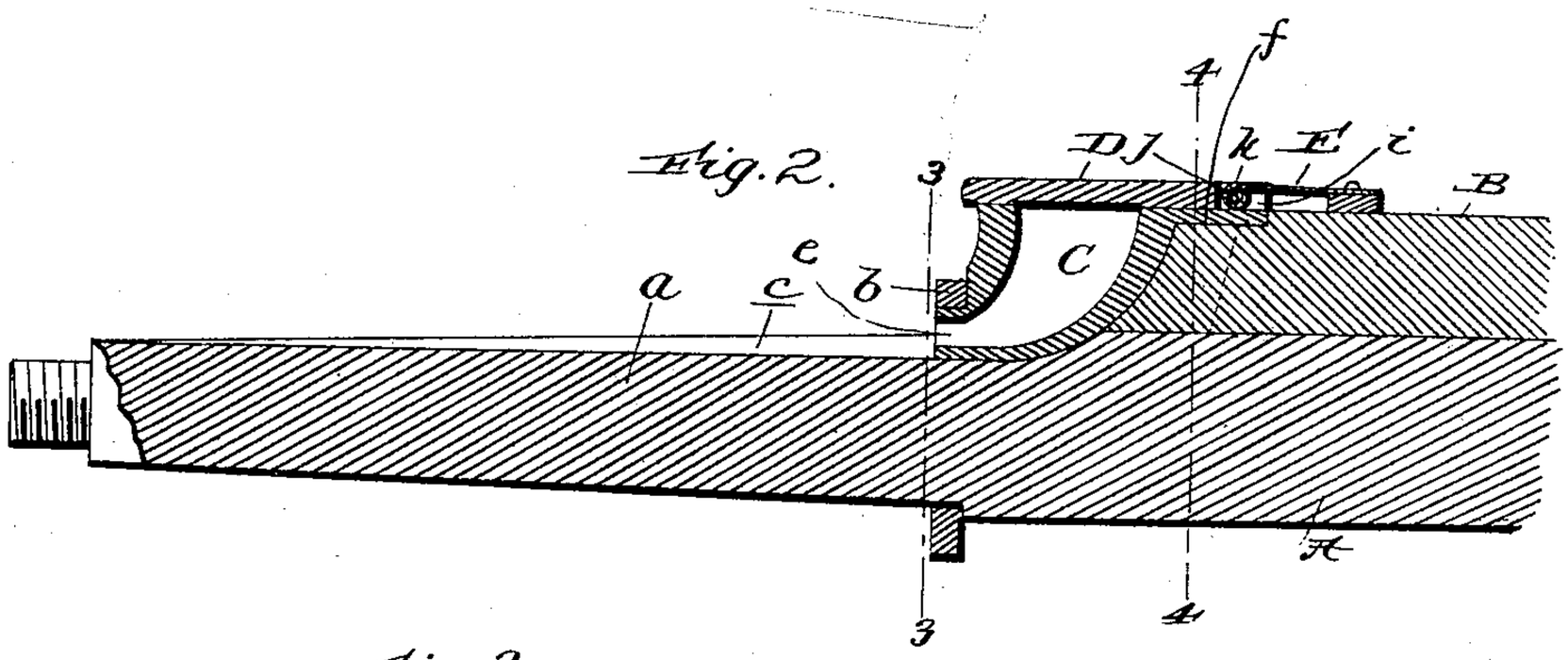


Fig. 3.

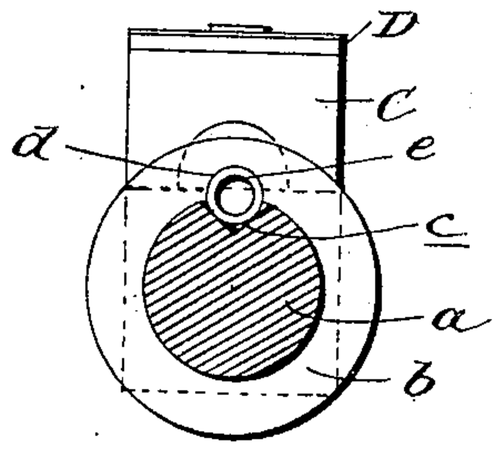
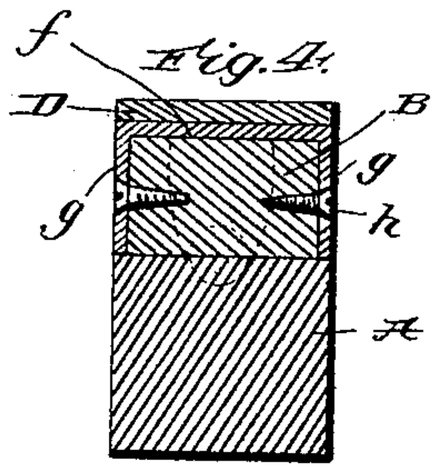


Fig. 4.



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UNITED STATES PATENT OFFICE.

GEORGE W. BUTLER, OF PALMYRA, CANADA.

AXLE-LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 615,801, dated December 13, 1898.

Application filed January 22, 1896. Serial No. 576,474. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. BUTLER, a citizen of the Dominion of Canada, residing at Palmyra, in the county of Kent and Province of Ontario, Canada, have invented new and useful Improvements in Axle-Lubricators, of which the following is a specification.

My invention relates to that class of axle-lubricators which embrace a lubricant-cup arranged upon the bar of an axle and having a tube extending through the collar of the axle-spindle, so as to feed lubricant to a groove in said spindle.

The general object of the invention is to provide a lubricator which embodies but a minimum number of parts, and is therefore susceptible of being cheaply produced and is not likely to get out of order in use.

With the foregoing in view the invention will be fully understood from the following description and claim, when taken in conjunction with the annexed drawings, in which—

Figure 1 is a perspective view, partly broken away, illustrating one end of an axle equipped with my improvements. Fig. 2 is a longitudinal central section of the same. Figs. 3 and 4 are transverse sections taken in the planes indicated by the broken lines 3 3 and 4 4, respectively, of Fig. 2.

In the said drawings similar letters designate corresponding parts in all of the several views.

The axle-bar A supports the ordinary wooden bolster-bar B, to which it is suitably connected, and has the usual spindle *a* and collar *b*, the spindle being provided with a longitudinal groove *c* and the collar with an aperture *d*, connected with the groove, as shown. On the axle-bar at one end of the bolster-bar is arranged my improved oil-cup C, which is preferably cast or otherwise formed in one piece. This cup has a nipple *e* arranged in the aperture *d* of collar *b*, so as to feed lubricant to the groove in the spindle *a*, and it is also provided at its inner end with the extended horizontal and vertical walls *f g*, which are designed to receive between them the reduced end of the bolster-bar, to which the cup is connected by screws *h*, taking through the walls *g*, as best shown in Fig. 4.

The entire upper side of the cup C is arranged in the same horizontal plane as the upper surface of the wall *f* in order to afford a flat seat for a cover D, which has for its purpose to tightly close the cup, and thereby exclude grit, dust, &c., from the interior thereof. The cover D is of a shape and size to entirely rest over the top of the cup and the extended wall *f* thereof, and it is provided in its inner end with a bifurcation *i*, and is also provided with a bar *j*, bridging the bifurcation, the said bar being arranged about the distance shown from the inner end of the cover, for a purpose which will presently appear.

E is a spring which in addition to connecting the cover D with the bolster-bar B serves to yieldingly press the cover against the cup to effectually exclude foreign matter from the interior of said cup, and yet permits of the cover being conveniently raised when it is necessary to charge the cup with lubricant. The spring is connected at one end to the upper side of the bolster-bar B and is provided at its opposite end with a barrel or eye *k*, which loosely receives the bar *j* of the cover D. By virtue of this construction the cover E has a movement independent of the spring, which enables it to always fit tight upon and securely close the cup. While this is so, the bar *j* being arranged at a distance from the inner end of the cover E prevents the outer end of the cover from rising except when it is pulled up with the spring.

It will be appreciated from the foregoing that my improved lubricator embodies but a minimum number of parts, which are not likely to get out of order in use, and that it is adapted to be quickly and easily secured in its operative position on an axle.

Having thus described my invention, what I claim is—

The combination of an axle having a longitudinally-grooved spindle and a collar provided with an aperture coincident with the groove of the spindle, a bolster-bar secured on the axle-bar and having its outer end re-

duced, the lubricant-cup arranged on the axle-bar and having the nipple arranged in the aperture of the collar and also having the flat upper side and the flat horizontal wall *f* and vertical walls *g* receiving the outer reduced end of the bolster-bar between them, means connecting the cup to the bolster-bar, the flat cover having the bifurcation in its inner end and the bar bridging said bifurcation, and the spring E connected to the upper side of the bolster-bar and having an eye receiving the bar of the cover, substantially as specified.

Dated at Ridgetown this 12th day of July, A. D. 1895.

G. W. BUTLER.

In presence of—
LIZZIE CARPENTER,
WALTER MILLS.