(No Model.)

S. H. COTTRELL.

AXLE LUBRICATOR.

No. 389,500. Patented Sept. 11, 1888.

Fig. 1.

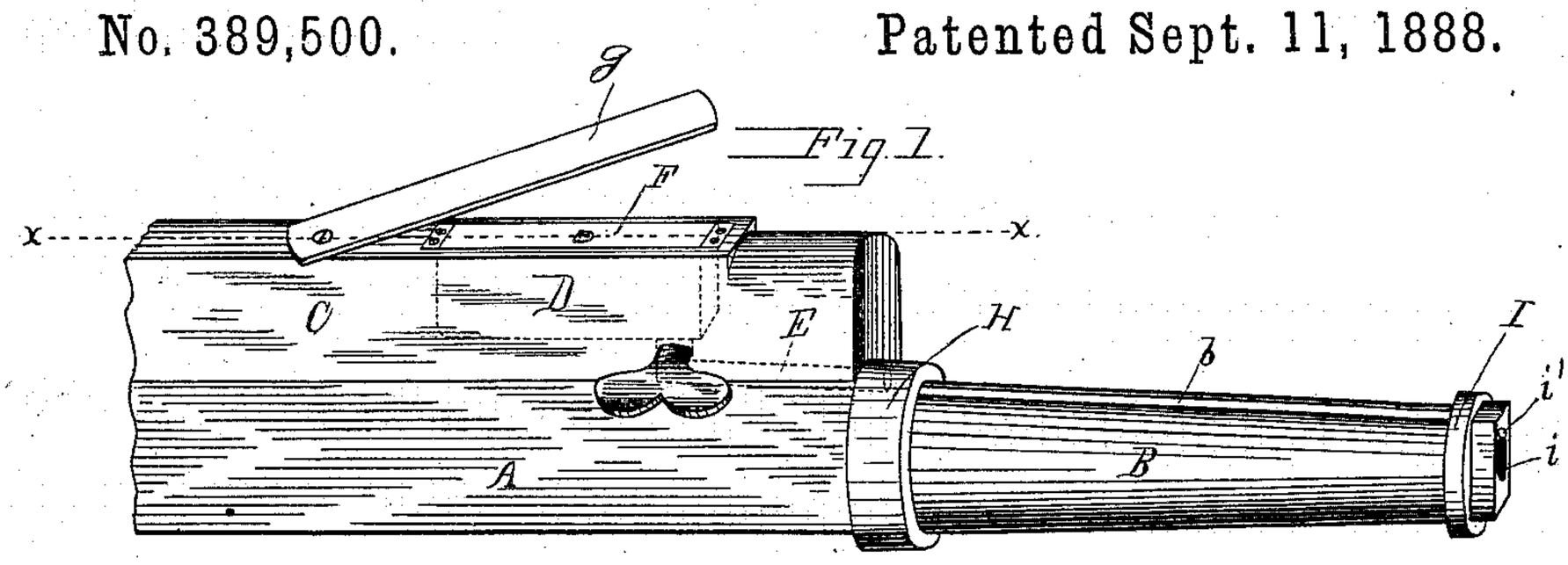


Fig. 2.

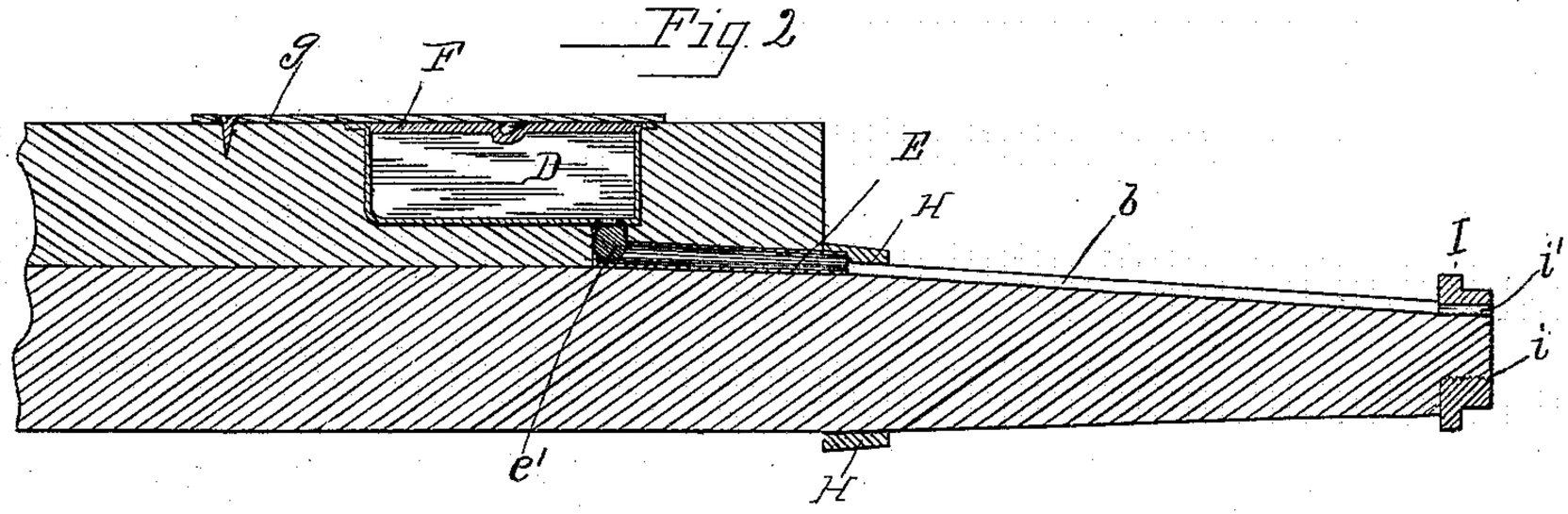


Fig. 3.

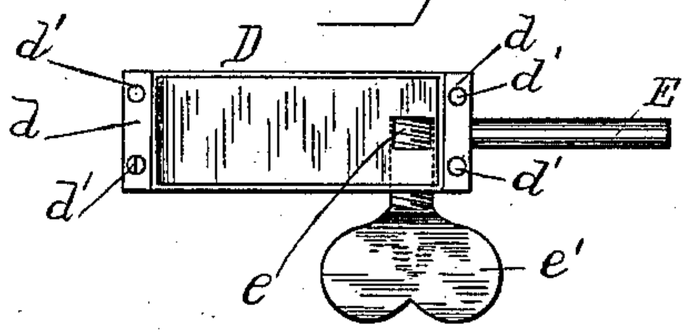
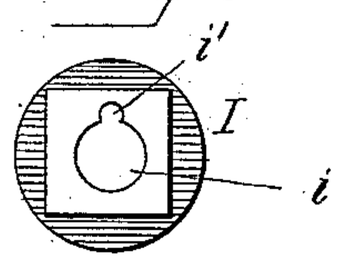


Fig. 4.



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AXLE-LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 389,500, dated September 11, 1888.

Application filed April 11, 1888. Serial No. 270,248. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL HARNEY COTTRELL, a citizen of the United States, residing at Ramsey, in the county of Sumter and State of Alabama, have invented certain new and useful Improvements in Axle-Lubricators; 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 has relation to axle-lubricators; and it consists in the novel construction and arrangement of its parts.

In the accompanying drawings, Figure 1 is a perspective view of my invention. Fig. 2 is a longitudinal sectional view of Fig. 1 cut through on the line *x x*. Fig. 3 is a top plan view of the oil-box. Fig. 4 is a face view of the spindle-nut.

My invention is described as follows: The axle-tree A has its upper face perfectly straight and flat. Spindle B has a groove, *b*, running along its top its entire length. The wooden casing C has its lower face perfectly straight and flat, so as to make a perfect joint between itself and the axle A.

D is the oil-tank, which is set in the wooden casing C. This tank has on each end extending from its upper edge perforated lips *d*, by means of which it is secured in said casing C by screws *d'*. From the bottom and front end of said tank a tube, E, extends downward until it reaches the upper face of the axle A, then turns sharply to the right, runs along the axle until its end reaches and is embedded in the groove *b*. In the bottom of said oil-tank is an opening, *e*, for the purpose of allowing the lubricating material to pass out into the tube E, thence into the groove *b*, from which sufficient escapes to lubricate the spindle. The said opening *e* is closed by a threaded thumb-screw, *e'*, which is so constructed that I may regulate the flow of the lubricating material or entirely cut off the supply. The said oil-tank is provided with a stove-top lid, F, which is made to fit perfectly, and its upper face is flush with the upper edge of said tank. This lid F is held in place by means of a spring-cover, G, which is pivoted to the upper face of the wooden casing C.

Around the spindle B at its shoulder is a washer, H, which serves the double purpose of protecting the end of the tube E and of keeping mud from getting into the groove *b*.

The spindle-nut I has besides its threaded opening *i* a small opening, *i'*. The threads on the said nut are so cut with respect to the threads on the end of the spindle that when the nut is screwed home the said opening *i'* will not be opposite the groove *b*, but it is so cut that by turning the said nut back a little it may be brought on a line with said groove *b*, when a small rod may be run through said opening and along said groove to clean it out in case it becomes stopped up.

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

1. The combination of the axle A, having the grooved spindle B, wooden casing C, fitting on the upper face of said axle, oil-tank D, provided with the perforated lips *d* and countersunk in said casing, and having the tube E, extending from the opening *e* in its bottom and terminating in the groove *b*, thumb-screw *e'*, adapted to close partly or entirely said opening *e*, and spring-cover G, adapted to close said oil-tank, substantially as shown and described.

2. The combination of the axle A, provided with the groove-spindle B, washer H, and spindle-nut I, having the threaded opening *i* and smooth opening *i'*, casing C, fitting on the upper face of said axle, oil-tank D, secured in said casing and having the tube E, adapted to conduct the oil into the groove *b*, thumb-screw *e'*, adapted to regulate the flow of the oil, stove-lid F, fitting in the top of said tank, and spring-cover G, adapted to hold said lid in place, substantially as shown and described.

3. In combination with an axle-tree having a groove-spindle, the oil-tank D, provided with the perforated lips *d*, stove-lid F, opening *e*, tube E, running from said opening *e* and terminating in a groove of the spindle, thumb-screw *e'*, adapted to partly or entirely close said opening *e*, substantially as shown and described.

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

SAMUEL HARNEY COTTRELL.

Witnesses:
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