

(No Model.)

R. FAAS.
CAR AXLE LUBRICATOR.

No. 389,373.

Patented Sept. 11, 1888.

Fig. 1.

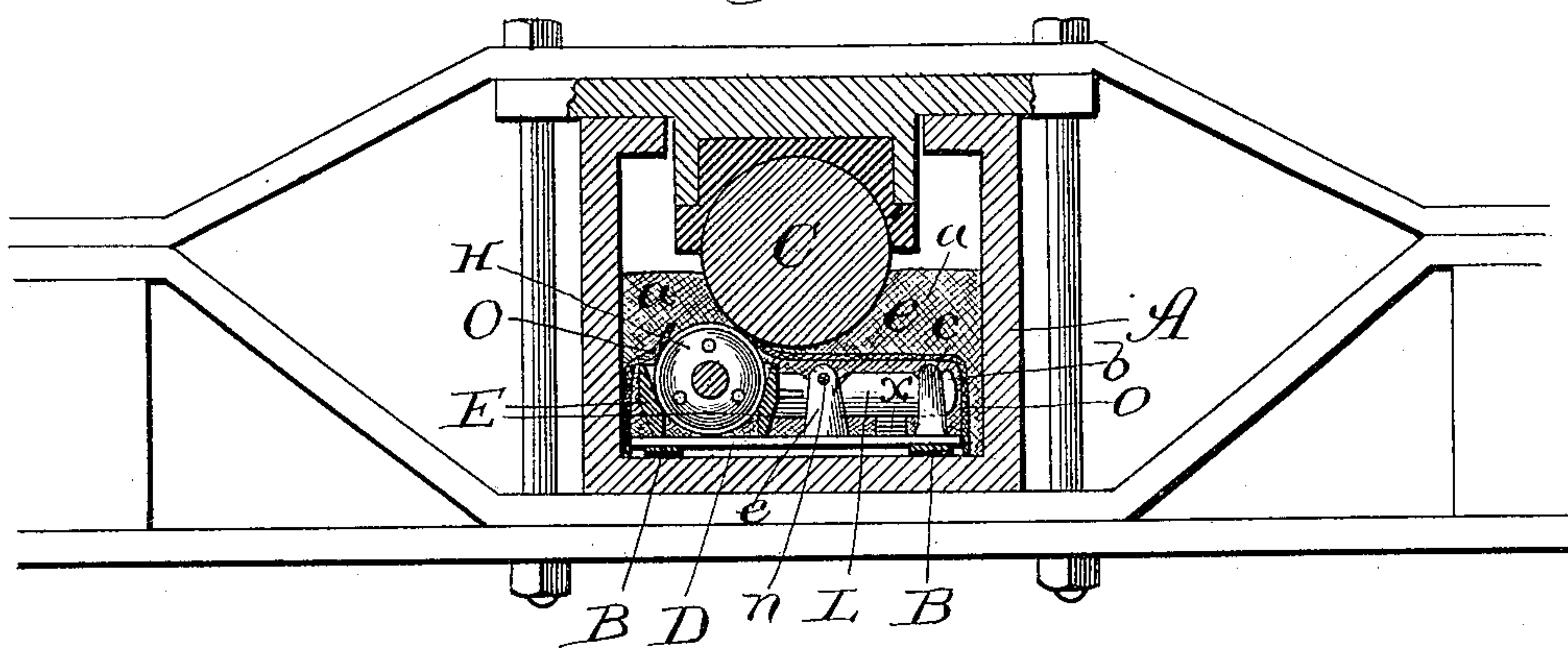


Fig. 2.

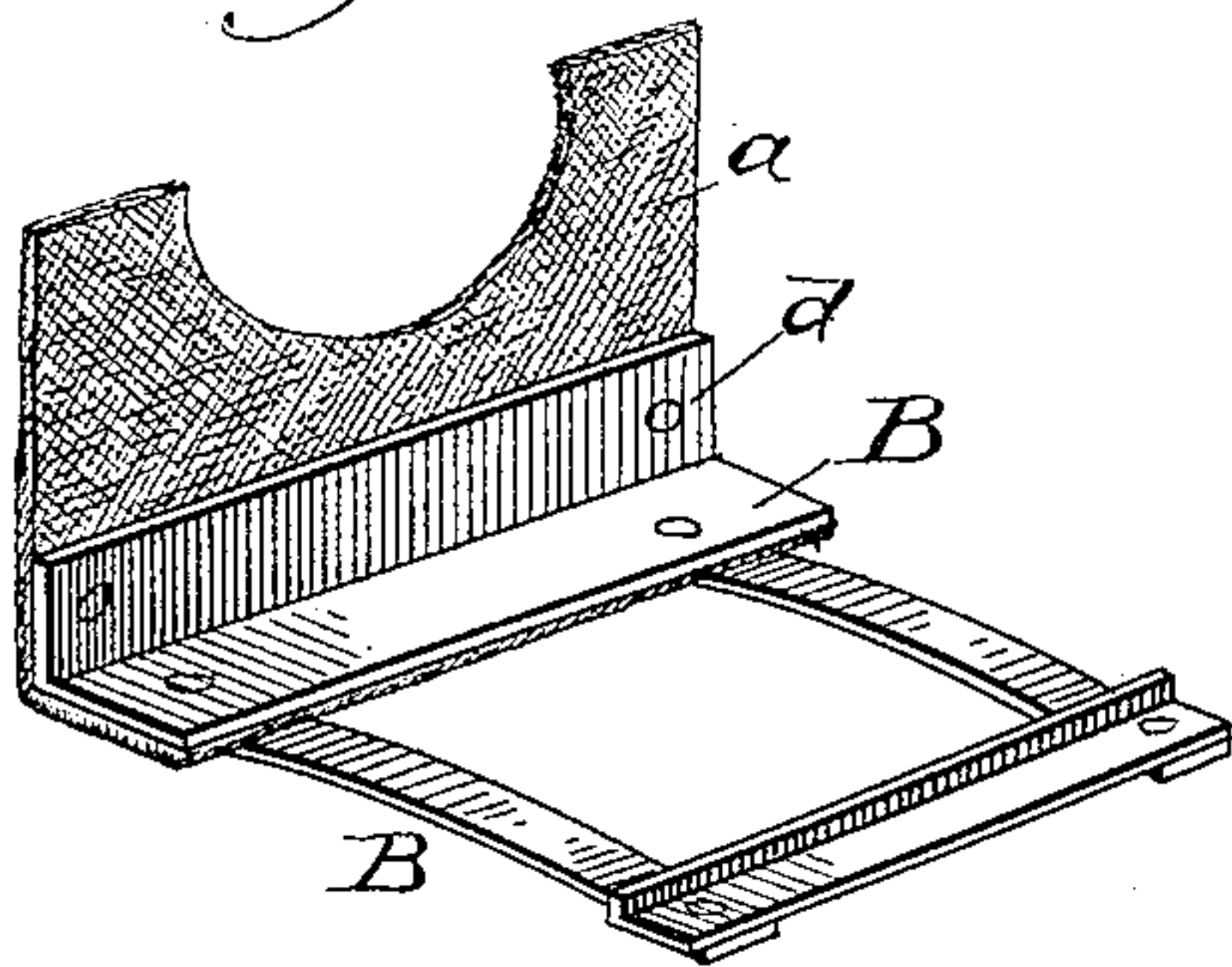


Fig. 3.

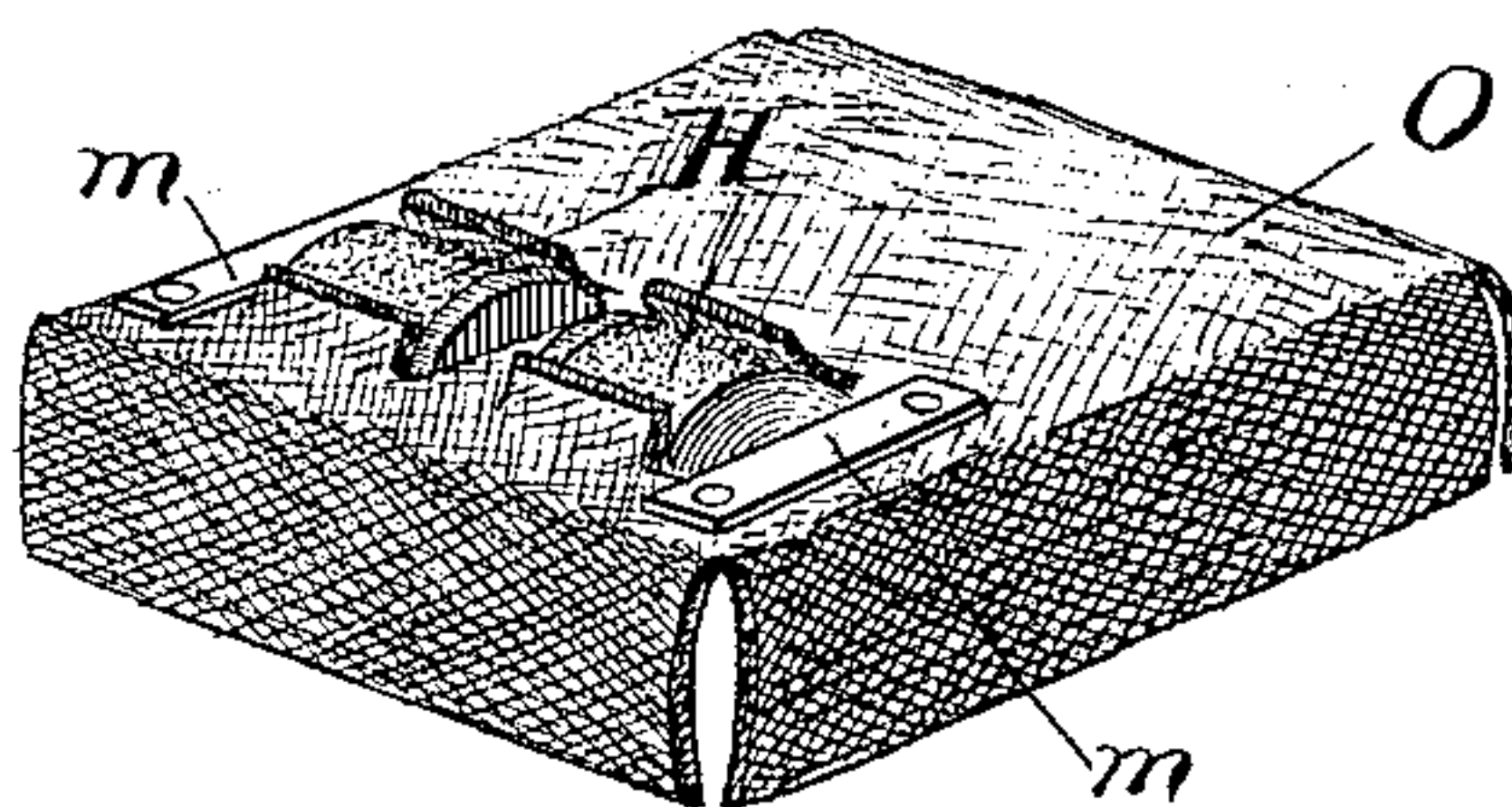


Fig. 4.

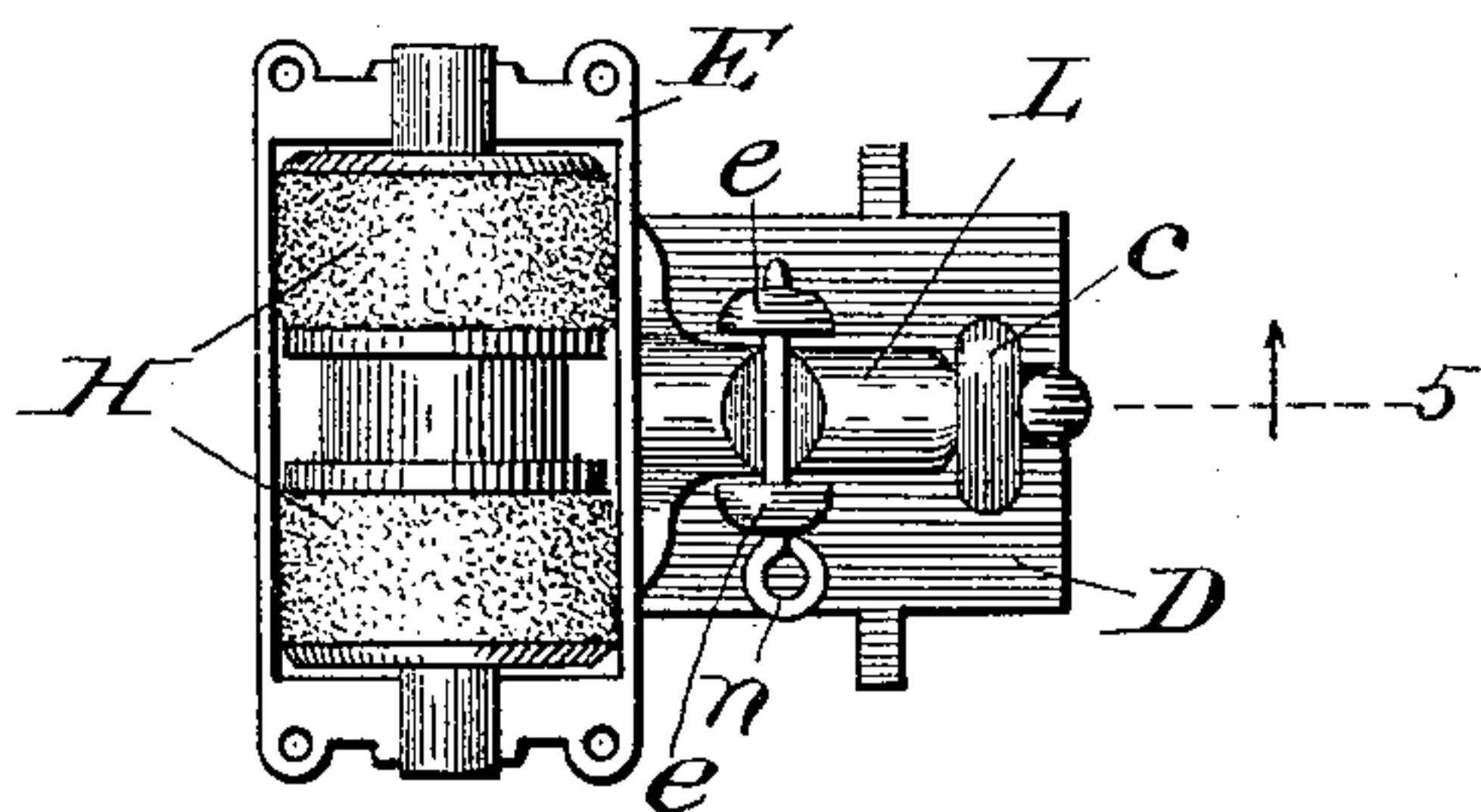
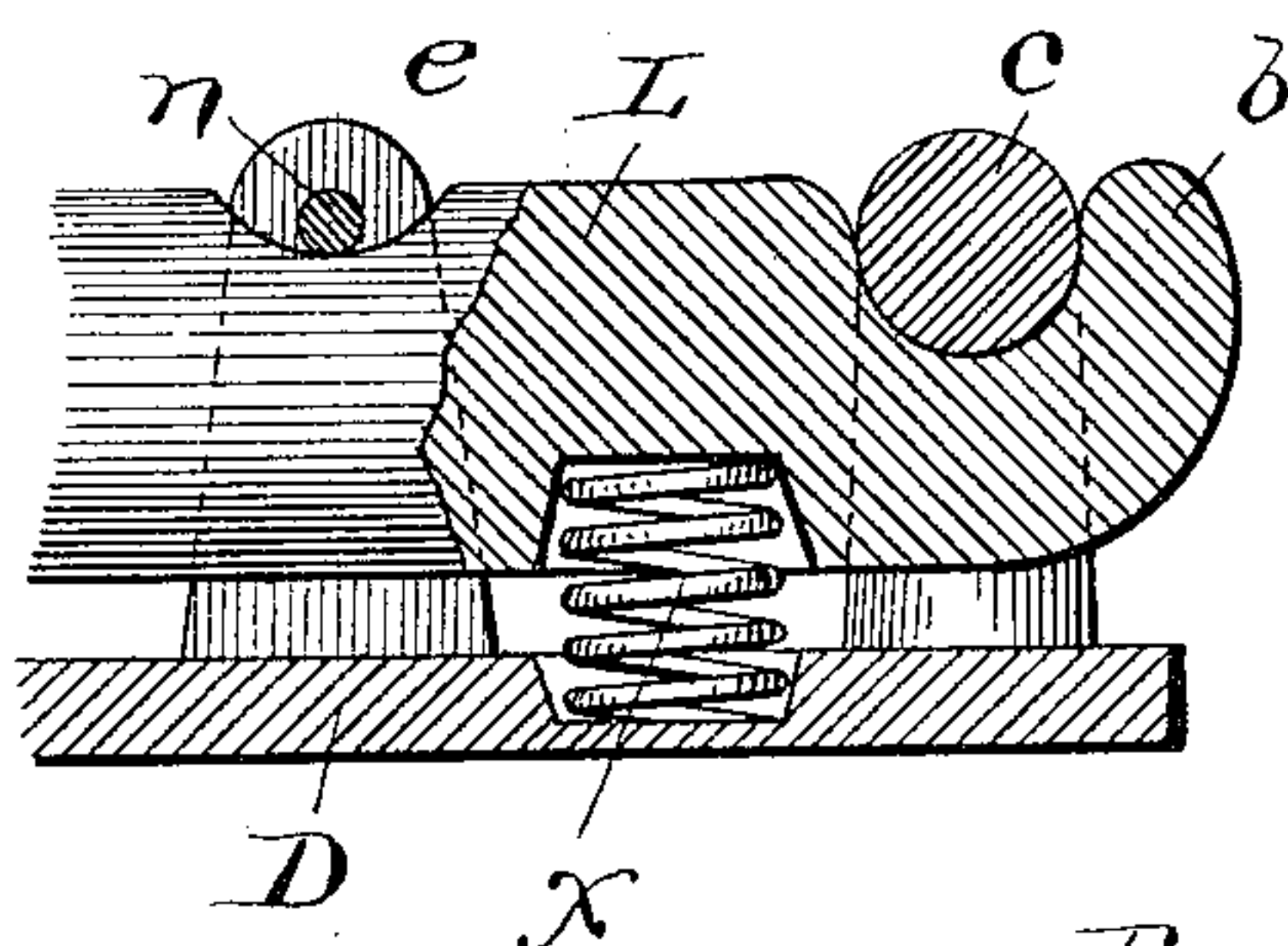


Fig. 5.



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UNITED STATES PATENT OFFICE.

RUDOLPH FAAS, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE STANDARD
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CAR-AXLE LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 389,373, dated September 11, 1888.

Application filed April 2, 1888. Serial No. 269,403. (No model.)

To all whom it may concern:

Be it known that I, RUDOLPH FAAS, a citizen of the United States, residing in the city of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Car-Axle Lubricators, of which the following is a specification.

My invention relates to that class of car-axle lubricators in which a lubricating-roller engages with the car-axle journal.

The objects of my invention are, first, to provide a continuously-lubricated car-axle journal; second, to prevent the waste of the lubricating material and to protect the lubricant, the car-axle journal, and bearing from accumulations or deposits of sand, dust, or other foreign material, thereby increasing the efficiency of the lubricating material and reducing the friction on the car-axle journal and avoiding heated journals.

I attain the objects of my invention by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a vertical section of a car-axle box, showing my device therein. Fig. 2 is a view in perspective of the metal frame with vertical flange and canvas extension. Fig. 3 is a similar view of the roller and device with the canvas or felt protector or cover. Fig. 4 is a surface view of the roller and its connecting parts. Fig. 5 is a longitudinal section of the bar on line 5, Fig. 4, to show the location and position of the spiral spring.

Similar letters refer to similar parts throughout the drawings.

A square metal frame, B, Fig. 2, made to fit and lie on the bottom of a car-axle box, A, is intended to serve as the base of my device. On one or both sides of said frame is a vertical metal flange, *d*, to which I add an extension vertically of canvas, *a*, which reaches to and encircles a portion of the perimeter of the car-axle journal C, thereby covering the aperture in the side of the car-axle box A.

On the metal frame B, I place the roller H, which is journaled in a framed malleable-iron bearing, E, suspended on the end of the bar or

lever L, which has a hook, *b*, on its opposite end, which enters an eye, *c*, which projects vertically from the top of the flat metal base D, which forms the support for the roller. The said bar L, underneath, near, or between the standards *e e*, also erected on said base D, is countersunk, as is also the metal base D, to receive and retain the vertical spiral spring *x*, as shown in Fig. 5. The vertical spiral spring *x* elevates the roller H and serves as a yielding fulcrum for the bar or lever L, to which the roller is attached, thus permitting it to engage yieldingly with the car-axle journal C. The two standards *e e*, erected on the metal base D, with the pin *n*, between which the bar L passes, maintain or hold the bar and roller in proper position. A canvas or felt cover, O, Fig. 3, is fastened on the top of the device by the two metal strips *m m*, as shown in Fig. 3, and serves as a protection and cover for the lubricant. Proper openings are cut in the cover O to permit the rollers to appear and allow the felt or canvas to lap over the roller partially, as shown in the illustration, to prevent the splashing or wasting of the oil.

I am aware that previous to my invention car-axle lubricators have been made with rollers engaging yieldingly with the car-axle journal. I therefore do not claim such a combination, broadly; but

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

In a car-axle lubricator, the combination of the metal frame B with vertical metal flanges *d* and canvas extension *a*, roller H, journaled in a malleable-iron frame, E, suspended on a bar or lever, L, with a hook, *b*, on opposite end of same, eye *c*, erected on the end of the flat metal base D, standards *e e*, pin *n*, the vertical spiral spring *x*, and canvas cover O, fastened with metal strips *m m*, as and for the purposes above described and specified.

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