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J. SCHINNELLER.

Improvement in Journal Box for Lubricating Axles.

No. 122,662.

Patented Jan. 9, 1872.

Fig. 3.

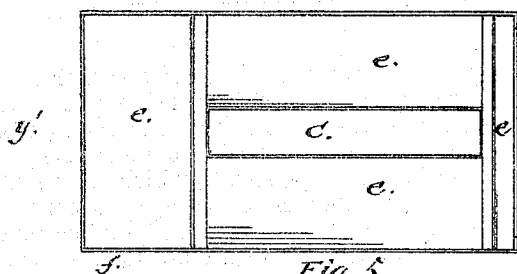


Fig. 4.

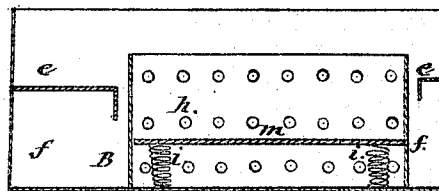


Fig. 5.



Fig. 1.

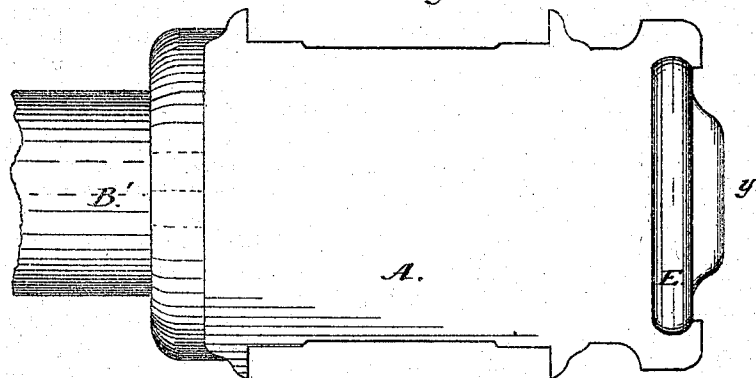
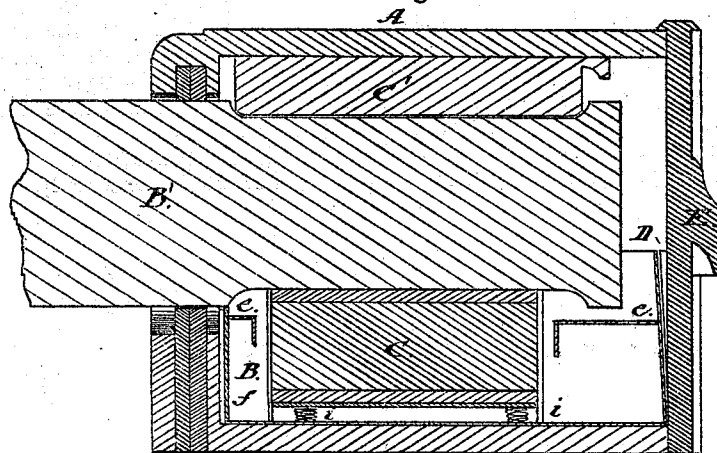


Fig. 6.



Fig. 2.



Witnesses,

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IMPROVEMENT IN JOURNAL-BOXES FOR LUBRICATING AXLES.

Specification forming part of Letters Patent No. 122,662, dated January 9, 1872.

Specification describing an Improvement in Lubricators, invented by JACOB SCHINNELLER, of Temperanceville, in the county of Allegheny and State of Pennsylvania.

The nature of my invention consists in a detachable lubricating and an oil chamber, placed within a case surrounding the axis of a wheel or shaft, the lubricating-chamber being provided with an elastic packing and the oil-chamber with splash-plates, all constructed and arranged as hereinafter described.

To enable others skilled in the art to make and use my invention, I will proceed to describe more fully its construction and operation.

In the accompanying drawing, which forms part of my specification, Figure 1 is a top view of the casing which surrounds the axis of a wheel. Fig. 2 is a longitudinal section of the same at line *y* of Fig. 1. Fig. 3 is a top view of the detachable lubricating-chamber. Fig. 4 is a longitudinal section of the same at line *y'* of Fig. 3. Fig. 5 is a top view of the packing or oil-conductor. Fig. 6 is a transverse section of the packing or oil-conductor.

In the accompanying drawing, A represents the outside casing, provided with a door, E, on the inner surface of which are wedged-shaped projections D. At the inner end of the outside casing is a recess for receiving gum or leather packing-rings K, which fit closely around the axle B'. On the upper side of the axle is the ordinary metal bearing C'. B represents the lubricating-chamber, the side walls of which are provided with a large number of perforations, *h*, and with a detached bottom, *m*, which rests upon springs *i*. The lubricat-

ing-chamber is placed within an oil-chamber, which is provided with splash-plates *e*. Between the side walls of the lubricating-chamber B is placed, on the bottom end, the packing or lubricating piece C, which is formed of flannel or other cloth wrapped around the wooden core *x*. The springs *i* and bottom *m* hold the upper edge of the lubricating-piece C against the under side of the axle B', and thereby keep it perfectly lubricated.

The lubricating-oil is placed in the oil-chamber *f*, and flows, through the openings *h*, into the lubricating-chamber, and is conducted up to the axle B' through the medium of the lubricating piece C. The oil is prevented from splashing out of the oil-chamber *f* through the medium of the splash-plates *e*. The wedged-shaped pieces D are used for the purpose of holding the oil-chamber firmly back against the inner side of the back end of the outside case A.

Having thus described my improvement in lubricators, what I claim as of my invention is—

1. A detached lubricating-oil chamber, having splash-plates *e*, and placed within a case surrounding the axle of a wheel or a shaft, substantially as herein described, and for the purpose set forth.

2. The case A, lubricating-oil chambers B and *f*, combined with the elastic packing C and inclined projections D on the door E, substantially as and for the purpose set forth.

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Witnesses:

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