

(No Model.)

I. H. PLUMMER.
CAR AXLE BOX.

No. 471,893.

Patented Mar. 29, 1892.

Fig. 1.

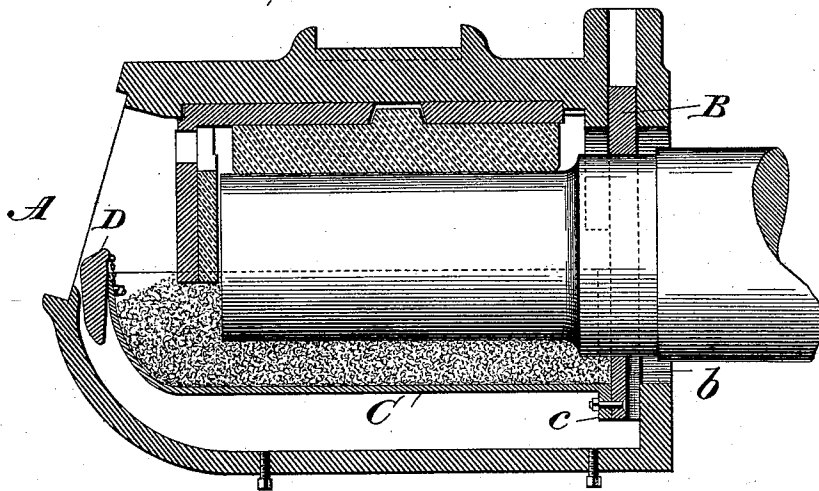


Fig. 2.

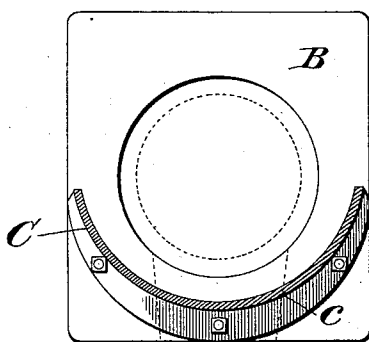


Fig. 4.

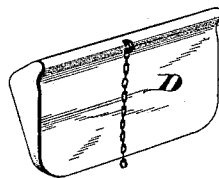
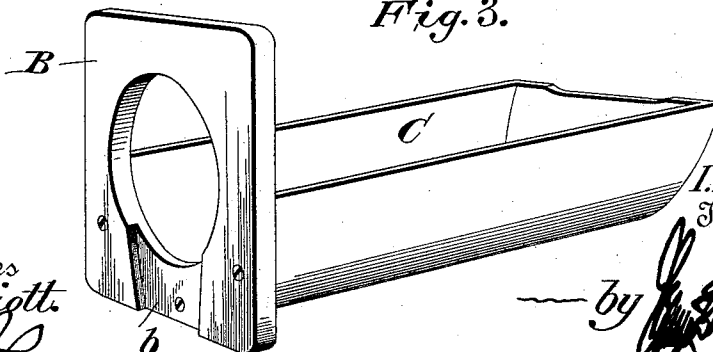


Fig. 3.



Witnesses
G. S. Elliott.

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UNITED STATES PATENT OFFICE.

IRA H. PLUMMER, OF GLENDIVE, MONTANA.

CAR-AXLE BOX.

SPECIFICATION forming part of Letters Patent No. 471,893, dated March 29, 1892.

Application filed December 17, 1891. Serial No. 415,387. (No model.)

To all whom it may concern:

Be it known that I, IRA H. PLUMMER, a citizen of the United States of America, residing at Glendive, in the county of Dawson and State of Montana, have invented certain new and useful Improvements in Car-Axle Boxes; and I do hereby 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 letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in car-axle boxes.

The object of the invention is to provide a journal-box of ordinary construction with an improved attachment which will effect the saving of the lubricant and packing and at the same time effectively lubricate the bearing-surfaces; and the invention consists in the construction and combination of the parts, as will be hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a vertical sectional view of a car-axle or journal box constructed in accordance with my invention. Fig. 2 is a sectional view. Fig. 3 is a perspective view. Fig. 4 is a detail perspective view.

A designates the car-axle or journal box, which may be of ordinary construction, such as is commonly used on freight and passenger cars. Where a bridge-wall is employed which would interfere with the application of my improvement to the ordinary box, said bridge-wall can be cut away.

B designates the dust guard or collar of the car-axle box, which is preferably made up of vulcanized fiber, and to the lower portion of the same is bolted or otherwise secured a receptacle or tray C, the bolts for securing the parts together passing through a flange c at the inner end of said receptacle. The outer or free end of this tray is upwardly-inclined, as shown, and the rear face of the dust guard

or collar below the opening therein is cut away or recessed, as shown at b, so as to provide a passage-way or conduit which will lead the oil to the journal-box proper.

The device shown in Fig. 3, consisting of the tray or receptacle and collar or dust-guard, is secured to the journal-box, so as to occupy the position shown in Fig. 1, and the brasses and packing are placed in position. A wedge-shaped block D, which is connected to the end of the tray by a chain or flexible connection, is then placed between the outer end of the tray and the front wall of the journal-box, and this wedge-shaped block, as the bearing-brass wears away, will descend automatically and support the end of the tray in proper position. With this device the usual packing and lubricant are employed, and it will be obvious that in practice it will only be necessary to partially fill the receptacle with the packing and lubricant, and any surplus or waste will be collected in the journal-box and may be drawn therefrom by removing the plugs from the apertures. Such oil or lubricant as in ordinary practice passes out between the lower portion of the collar and axle will pass down the channel b of the collar into the journal-box.

This device is extremely simple and may be readily applied, and it is obvious that by the use of the same a great saving in packing and lubricant is accomplished and that the device will automatically adjust itself as the brasses upon which the axle bears wear away.

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

1. In combination with a packing-box, a collar carrying a tray which is adapted to hold the lubricant, substantially as shown.

2. In combination with a journal-box, a collar B, having an aperture through which the axle passes, and a tray C, adapted to hold the lubricant carried thereby, substantially as shown.

3. In combination with a journal-box, a collar B, having an aperture through which the axle passes, a recess in the outer face

thereof, and a tray supported by the collar, said tray being adapted to hold the lubricant, substantially as shown.

4. The combination, with a car-axle box, a
5 collar adapted to be retained at right angles with the axle, a tray C, adapted to hold the lubricant, and a wedge-shaped block for supporting the outer end of the tray, said block bearing against the tray and axle-box, sub-
10 stantially as shown.

5. The combination, with a collar and tray carried thereby, of a block D, for the purpose set forth.

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

IRA H. PLUMMER.

Witnesses:

E. W. B. HARVEY,
WM. LAME.