

E. SIKES.
CAR-AXLE BOX.

No. 172,186.

Patented Jan. 11, 1876.

Fig: 1.

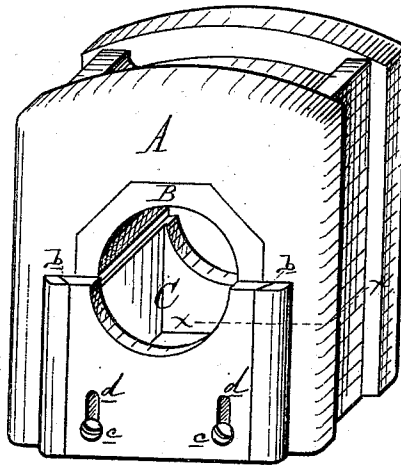


Fig: 2.

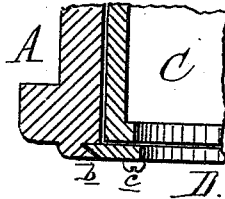


Fig: 3.

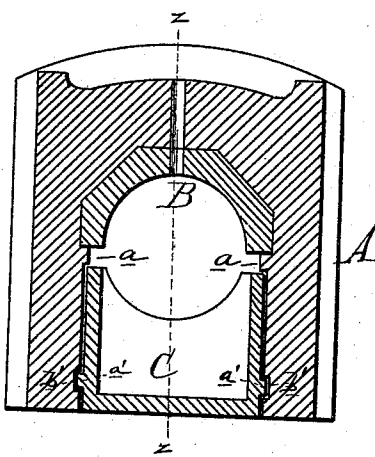
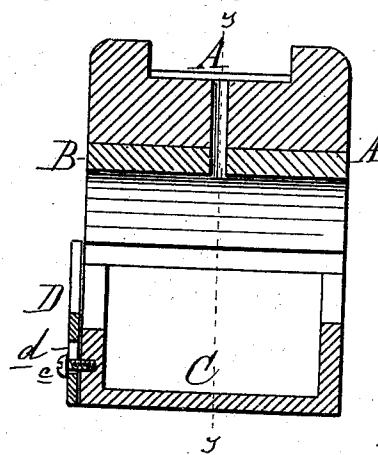


Fig: 4.



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UNITED STATES PATENT OFFICE.

EDWIN SIKES, OF BURLINGTON, IOWA.

IMPROVEMENT IN CAR-AXLE BOXES.

Specification forming part of Letters Patent No. **172,186**, dated January 11, 1876; application filed October 25, 1875.

To all whom it may concern:

Be it known that I, EDWIN SIKES, of Burlington, in the county of Des Moines and State of Iowa, have invented an Improvement in Axle-Boxes for Locomotive-Trucks, of which the following is a specification:

My invention consists in the combination, in an axle-box cast without a bottom plate, of a sliding oil drawer, and a dust-protecting plate, removably attached to the end of such drawer; and, further, in the combination, in an axle-box cast without a bottom plate, of the horizontally-sliding oil-drawer, the vertically-moving dust-plate, the slots, and set-screws, for securing the plate to the drawer, all as more fully hereinafter explained.

Figure 1 is a perspective view. Fig. 2 is a horizontal section of one corner at *x x* in Fig. 1. Fig. 3 is a cross-section at *y y* in Fig. 4. Fig. 4 is a longitudinal section at *z z* in Fig. 3.

In the drawing, A represents the box, and B the brass resting on the ribs *a*. C is an oil-receptacle in the form of a drawer, having a rib, *a'*, on each side, sliding in a horizontal groove, *b'*, cast in the side of the box. This axle-box is cast without a bottom, the oil-drawer supplying the place of the same, and thereby is lighter and cheaper than those heretofore made; also, the box can be lifted off of the end of an axle-box by first sliding out the drawer, which cannot be done with boxes having permanent or bolted bottoms. D is a plate, sliding in dovetail ways *b*, cast on the end of the box, curved out on the upper edge to fit under the neck of the journal, where it is held in position by the set-screws

c c, tapped through the slots *d d* into the end of the drawer.

By adjusting the plate close up to the axle, dust will be excluded from the box, while, by removing the screws *c*, the plate may be raised out of the ways, and the drawer can be pulled out for repacking the box. Heretofore this has been accomplished by detaching the bottom half of the box from two vertical bolts, at the expense of much time and labor, in an awkward place to work.

Thus it will be seen that the dust-plate holds the oil-drawer firmly in place without horizontal play, and by removing the set-screws the drawer can be taken out of the box, and at the same time serves the purpose of excluding the dust.

What I claim as my invention is—

1. In an axle-box cast without a bottom plate, the combination of a sliding oil-drawer and a dust-protecting plate removably attached to the end of such drawer, substantially as described and shown.

2. In an axle-box cast without a bottom plate, the combination of the oil-drawer C, sliding horizontally in ways in the box, the dust-protecting plate D, sliding vertically in ways on the end of the box, the slots *d*, and set-screws *c*, the said dust-plate securing the said oil-drawer in place, substantially as described and shown.

EDWIN SIKES.

Witnesses:

WILLIAM GARRETT,
CHAS. HARKER.