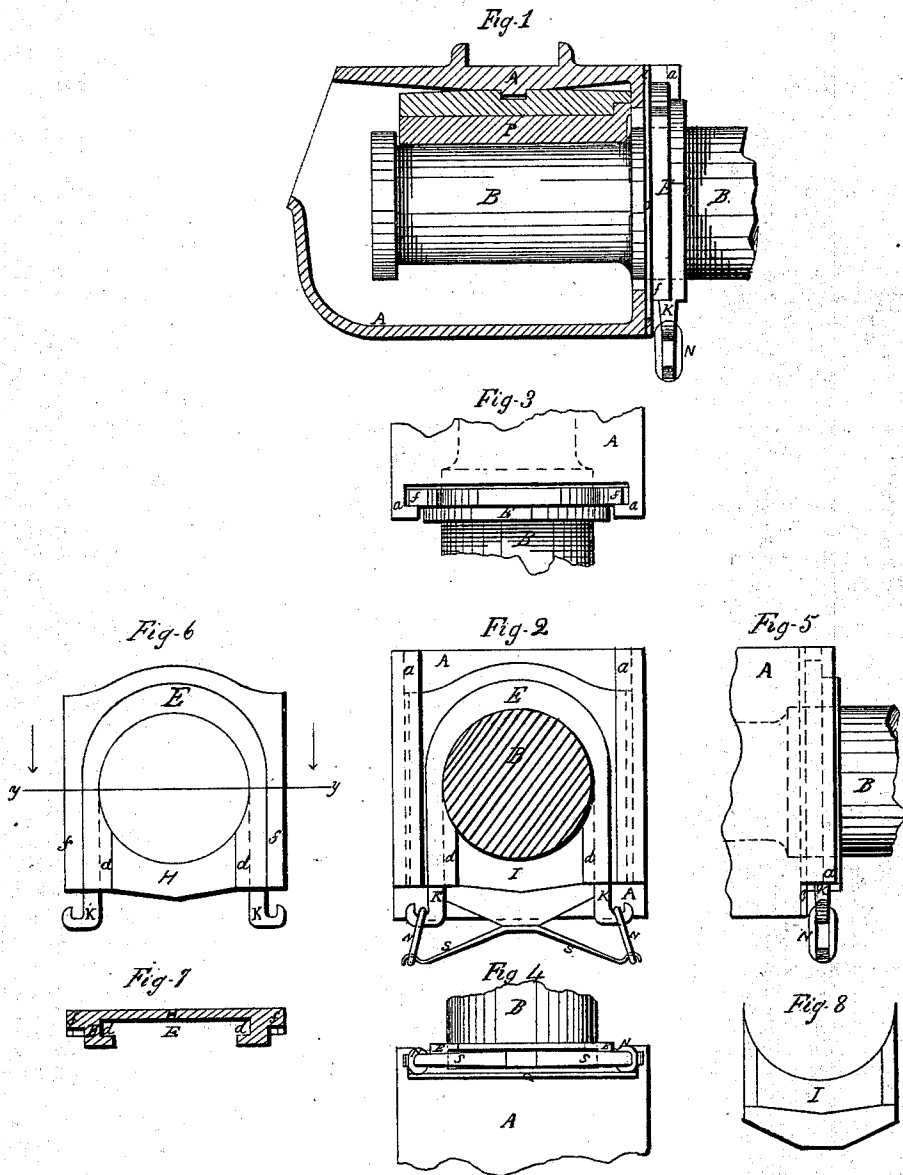


W. A. DRIPPS.
Car-Axle Boxes.

No. 146,437.

Patented Jan. 13, 1874.



WITNESSES.

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WILLIAM A. DRIPPS, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN CAR-AXLE BOXES.

Specification forming part of Letters Patent No. **146,437**, dated January 13, 1874; application filed August 27, 1873.

To all whom it may concern:

Be it known that I, WILLIAM A. DRIPPS, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in Journal-Boxes for Railroad-Cars; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a vertical longitudinal section of journal-box with a side view of my improvement in full attached to its inner end. Fig. 2 is a detail view of the inner end of journal-box, showing the axle in section. Fig. 3 is a top view of same. Fig. 4 is a bottom view of same. Fig. 5 is a longitudinal view of same. Fig. 6 is a detail end view of detachable plate that is fitted to inner end of journal-box. Fig. 7 is a detail section of the same taken through the line *yy*, Fig. 6. Fig. 8 is a front view of movable plate that is fitted in guides of detachable plate, Fig. 6.

My invention has for its object to improve the construction of journal-boxes for railroad-cars, so as to prevent the escape of oil from the back part of the box, thereby saving oil and preventing the oil from escaping and spreading over the wheels; and it consists in the construction and combination of various parts, as hereafter more fully described.

On the outside of the inner end of journal-box A are two guides, *a a*, projecting vertically on each side, into which the sides *f f* of the plate E are fitted to move up and down, and tight enough so that the inner surface of plate E will press, and is made oil-tight, against the inner end of journal-box A by an intervening piece of leather, C, or other suitable material. The said piece of leather C fits in between the two guides *a a*, and extends from top to bottom of back part of box A,

and has an opening which fits upon the enlarged part of axle B. The plate E can be fitted directly to the box A without the piece of leather C; but I prefer the arrangement of parts, as shown. The plate E has an opening, which fits upon the enlarged part of axle B. A part of the lower portion of plate E is cut away, leaving a part, H, and forming guides *d d*, shown in Figs. 6 and 7. I, Fig. 8, is a movable plate, which is fitted oil-tight in guides *d d* and against H of plate E. The upper part of plate I is made concave to fit against the enlarged part of axle B, and held up against said axle by any of the usual arrangements of spring; but I prefer the long flat steel spring *s*, as herein shown. The spring *s* is fastened to the bottom of plate I and to plate E by two links, *N N*, which hook over the two prolonged hooked ends *K K* of the lower portion of plate E, and when both plates E and I, with spring *s* and links *N N*, are properly fitted and in place, will close oil-tight against enlarged part of axle B; and, as the bearing or brass P and journal B wears away, the plate E will move in the guides *a a* with the axle B and still remain oil-tight against the outside of inner end of the journal-box A by the intervening piece of leather C.

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

1. The plate E, having the guides *d d* and hooked ends *K K*, combined with the movable plate I, spring *s*, and links *N N*, arranged to operate substantially as and for the purposes described.

2. The combination of the guides *a a* on outside of inner end of journal-box A with the plate E, all as and for the purpose set forth.

W. A. DRIPPS.

Witnesses:

G. C. DRIPPS.

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