W. F. JENKINS, Jr.

Car Axle Box Brass.

No. 198,115. Patented Dec. 11, 1877.

Fig. 2.

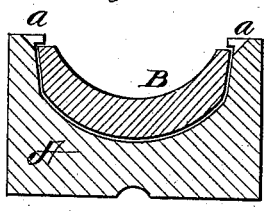
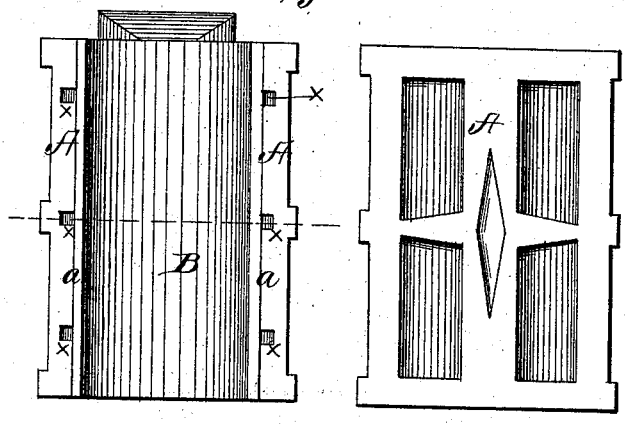


Fig. 1.



WITNESSES

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UNITED STATES PATENT OFFICE.

WILTON F. JENKINS, JR., OF RICHMOND, VIRGINIA, ASSIGNOR OF ONE-HALF HIS RIGHT TO E. L. VAN LEW, OF SAME PLACE.

IMPROVEMENT IN CAR-AXLE-BOX BRASSES.

Specification forming part of Letters Patent No. **198,115**, dated December 11, 1877; application filed September 27, 1877.

To all whom it may concern:

Be it known that I, WILTON F. JENKINS, Jr., of Richmond, in the county of Henrico, and in the State of Virginia, have invented certain new and useful Improvements in Car-Axle Boxes; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

My invention relates to car-axle journal-boxes; and it consists in the construction of that part thereof which is commonly known as the "brass" in two parts, one sliding in the other, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a bottom view and a plan view of my invention. Fig. 2 is a cross-section of the same.

What is commonly known as the "brass" in a car-axle journal-box is the half box or bearing on top of the journal, and this has hitherto ordinarily been made of one solid piece of metal, though sometimes it has been lined on its under or concave side with Babbitt or other soft metal; but such lining has invariably been rigidly fastened to the main part. I construct this brass of two parts, A and B. The part A is of the usual form, to bear against the top of the journal-box, and its lower side concave. Along each side of this part A, at the lower edge, is an inwardly-projecting flange or rib, *a*, to hold or retain the part B in place. This part B is made convex on its upper side, to fit the concavity of the part A, and its under side is made concave, to fit the car-axle journal. This part B is slipped into the part A from the end, and the side edges of said part B rest upon the flanges *a a*. When the parts are in position in the journal-box, it will readily be seen that the part B can move endwise in the part A, which is of great advantage when the cars go around curves, as thereby the binding and strain of the journal on the brass are entirely avoided. In the flanges *a* are made oil-passages *x x*, so that oil can easily pass in between the parts and prevent heating.

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

1. The journal-box brass provided with a supplemental lining, having a longitudinal movement within the same, in connection with the axle, substantially as herein set forth.

2. The combination of the part A, provided with the projecting ribs or flanges *a a*, having oil-passages *x x*, and the sliding part B, in connection with a car-axle, for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 5th day of September, 1877.

WILTON F. JENKINS, JR.

Witnesses:

THOS. L. WHITING,

C. W. JENKINS.