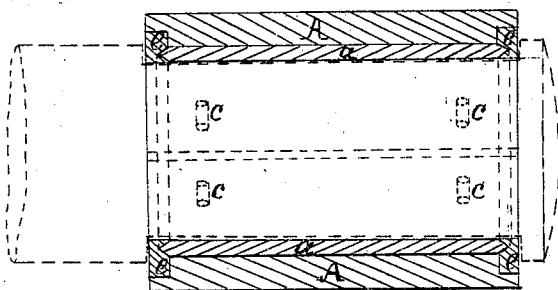


G. A. Henfield, Car Axle-
Box
 73183

Fig. 1.



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Fig. 2.

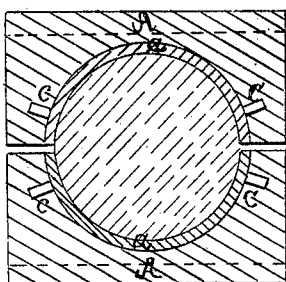
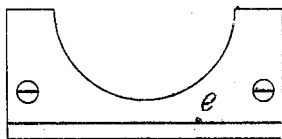


Fig. 3.



Fig. 4.



Witnesses.

Thos. Insocke
Alvin Fraser

Inventor.

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Attorneys

United States Patent Office.

GEORGE H. HENFIELD, OF SAN FRANCISCO, CALIFORNIA.

Letters Patent No. 73,183, dated January 7, 1868.

IMPROVEMENT IN CAR-AXLE BOXES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, GEORGE H. HENFIELD, of the city and county of San Francisco, and State of California, have invented a new and useful Improvement in the Mode of Securing the Soft-Metal Lining to Boxes of Railway-Cars and Shaft-Bearings; 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 drawings, forming a part of this specification, in which—

Figure 1 is a central longitudinal section of a car-axle box, showing my improvement.

Figure 2 is a cross-section of the same.

Figure 3 is an inside view of one of the end-caps which secure the lining in place.

Figure 4 is an outside view of an end-cap.

Similar letters of reference indicate corresponding parts.

This invention relates to an improvement in the construction of boxes for car-axles or journals, and consists in an arrangement of parts for holding the lining of Babbit metal, or other soft metal, securely in place within the shell of the box, pins or spurs projecting from the sides of the lining into the bottom and top of the shell, to prevent any rotating movement of the linings, and also metal caps or side pieces being screwed on to the ends of the shell or box, to prevent the linings from starting or falling out endwise, as hereinafter more particularly described.

A A represent the shells or body of the double box, which may be made of cast or malleable iron, in which are fitted, as usual, linings *a a*, made of Babbit or other suitable metal for the bearings. The linings *a a* in the upper and lower parts of the box are each provided with pins or spurs *c c*, which fit into holes made in the shells A A, and hold the linings firmly, to prevent any rotating movement, and against the ends of the linings, end-pieces or caps *e e*, the inside of which are grooved to match the bevel edges of the linings, as shown in fig. 1, and thus hold them snug and tight endwise.

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

The combination of the grooved caps *e e*, the linings *a a*, provided with pins *c c*, and the shells A A, arranged as and for the purpose herein described.

GEORGE H. HENFIELD.

Witnesses:

J. C. HUTCHINSON,

R. P. LEWIS.