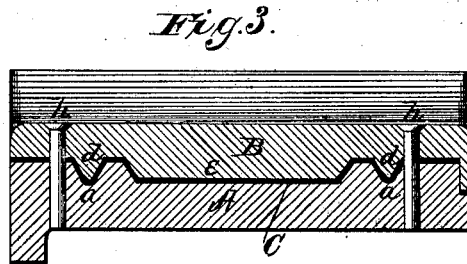
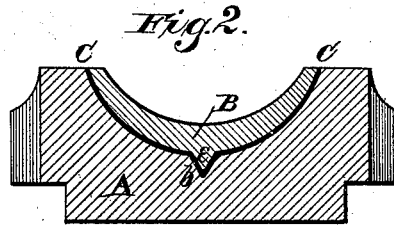
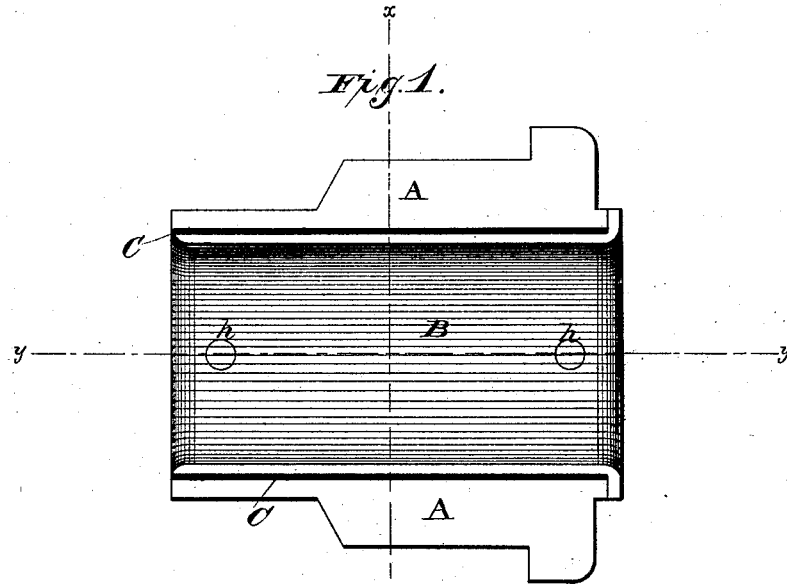


J. E. DEFREEST.
Journal-Box.

No. 212,665.

Patented Feb. 25, 1879.



WITNESSES
F. L. Couraud,
H. Aubrey Toulmin

By

INVENTOR
Jerome C. Defreest
Alexander Thomson
ATTORNEYS

UNITED STATES PATENT OFFICE.

JEROME E. DEFREEST, OF TROY, NEW YORK.

IMPROVEMENT IN JOURNAL-BOXES.

Specification forming part of Letters Patent No. **212,665**, dated February 25, 1879; application filed January 14, 1879.

To all whom it may concern:

Be it known that I, JEROME E. DEFREEST, of Troy, in the county of Rensselaer, and in the State of New York, have invented certain new and useful Improvements in Journal-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.

The nature of my invention consists in the construction of a journal-box for railroad-car axles, engines, and other machinery, 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 drawings, in which—

Figure 1 is a plan view of my journal-box. Fig. 2 is a cross-section of the same on the line *x x*, Fig. 1. Fig. 3 is a longitudinal section thereof on the line *y y*, Fig. 1.

A represents the back of the box, made of cast-steel, malleable or wrought iron, or any other suitable material. In the concave surface of this back are made transverse grooves *a a* and one or more longitudinal grooves, *b*, as shown. B represents the lining of the box, made of gun-metal, and provided on its convex surface with transverse and longitudinal ribs *d e*, to correspond with the grooves in the

concave surface of the back. Between the back A and lining B is interposed a lead cushion, C, which is stamped or pressed to fit the grooves and ribs above described. The three parts A, B, and C are then securely fastened together by means of rivets *h h*, as shown.

The intermediate lead lining or cushion prevents heating, or the gun-metal lining B from breaking, and also renders the box noiseless.

The cleats or ribs and grooves prevent the gun-metal lining from moving either way.

This invention is applicable to both upper and lower bearings or journal-boxes, for railroad-car axles or journal-boxes for all kinds of machinery, engines, &c.

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

In a journal-box, the combination of the back A, having grooves *a b*, the lining B, having ribs or cleats *d e*, and the intermediate lead cushion, C, the three parts being united by rivets, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 7th day of January, 1879.

JEROME E. DEFREEST.

Witnesses:

GEORGE H. BAKER,
W. H. STILLMAN.