R. Daniels.

Bearing for Shafts.

No. 90,156. Patented May 18, 1869.

Fig: 1.

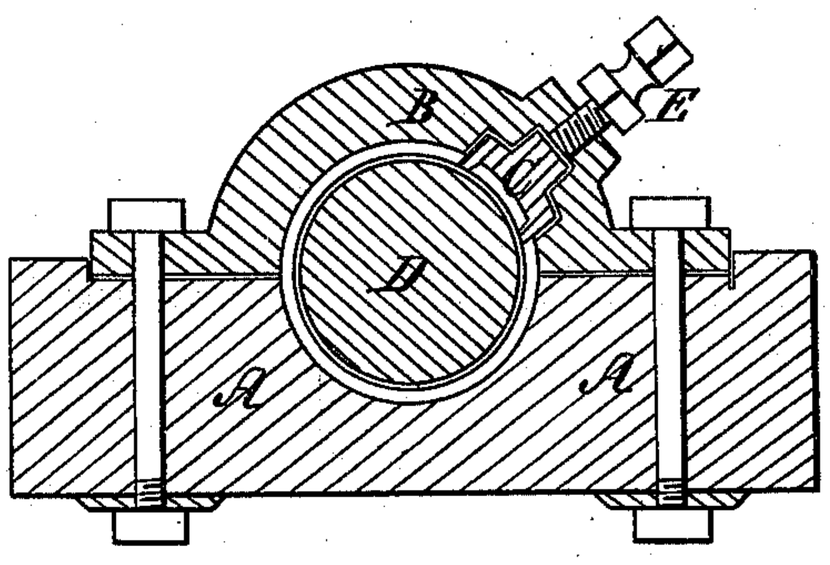
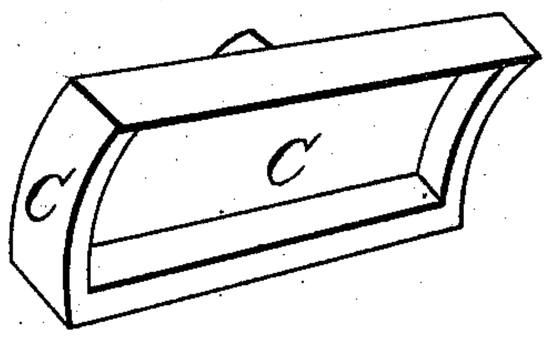


Fig: 2.



Witnesses;
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United States Patent Office.

REUBEN DANIELS, OF WOODSTOCK, VERMONT.

Letters Patent No. 90,156, *dated May* 18, 1869.

IMPROVED BEARING FOR SHAFTS.

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, REUBEN DANIELS, of Woodstock, in the county of Windsor, and State of Vermont, have invented a new and improved Triple Bearing for Axles, Shafts, &c.; 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 represents a vertical transverse section of my improved triple bearing.

Figure 2 is a detail perspective view of the adjustable portion of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new axle-bearing, which is to be so connected that it can be used for a considerable length of time, and that it can at any time be readjusted, when worn, by merely turning one or more set-screws.

The invention consists in interposing, in an internal groove of one of the pieces constituting the body of the journal-box, a loose bar, or plate, of anti-friction metal, which can be forced against the axle, or shaft by means of one or more set-screws, and which will, therefore, keep the shaft tight in its bearing, as it can be forced further down when worn.

A, in the drawing, is the lower, and B the upper part of a journal-box, of ordinary form.

In the upper part, B, is arranged an internal groove, *a*, in which a bar, or plate, C, of anti-friction metal is placed, said bar, or plate extending from end to end of the box, or at least as far as the bearing-surface of the box.

The bar, or plate A can be forced against the shaft D by means of one or more set-screws E, or other equivalent mechanism, fitted into the outer box B, as shown.

Instead of being entirely made of anti-friction metal, the plate C may be made of hard metal, and lined on its working-face with anti-friction material.

The inner face may be hollowed out, as shown, or otherwise constructed.

Two or more such adjustable plates, C, may be arranged in the box, and either or all of them may be either in the upper or lower part of said box.

When the face of the plate C, or any other part of the box, or the shaft D wears, the screw E is turned to force the plate down again upon the shaft, and the latter will thus remain in a close-fitting journal-box, however it may wear itself or the box.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The journal-box A B, provided with the supplementary bearing-plate C, adjustable by means of the set-screw E, substantially in the manner herein described, for the purpose specified.

REUBEN DANIELS.

Witnesses:

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