

(No Model.)

T. W. GREEN.  
JOURNAL BOX.

No. 602,287.

Patented Apr. 12, 1898.

Fig. 2.

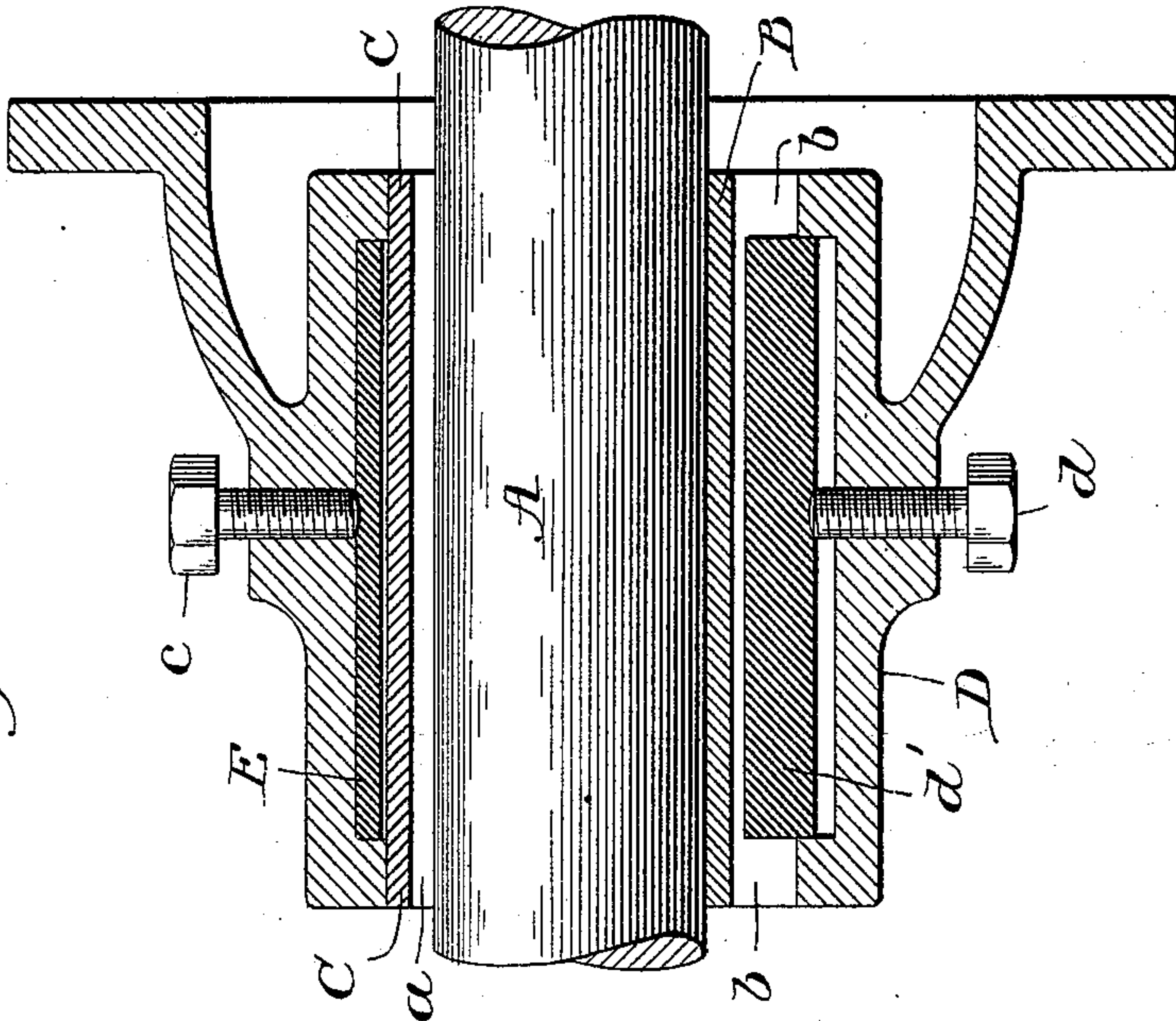
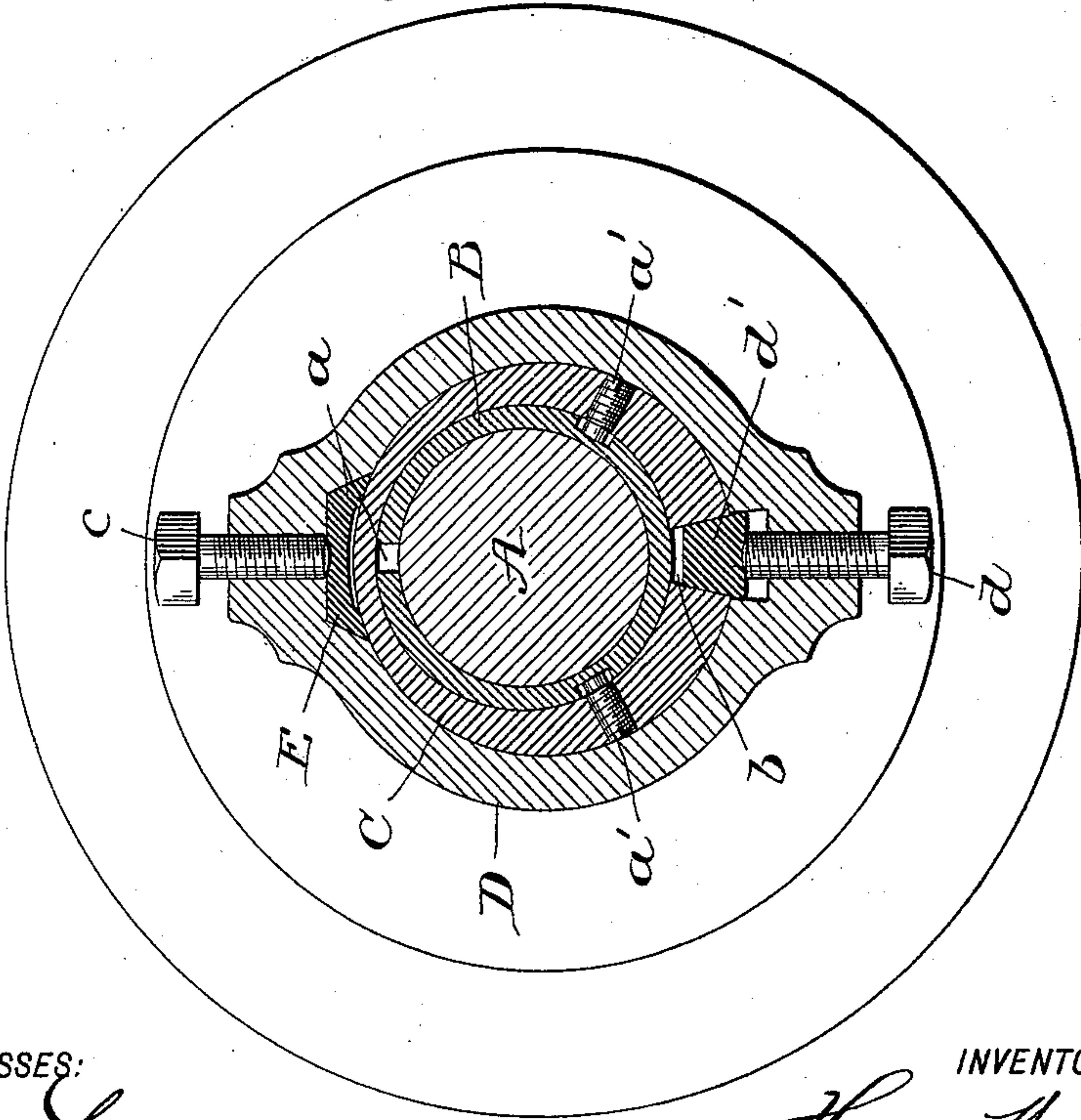


Fig. 1.



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# UNITED STATES PATENT OFFICE.

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## JOURNAL-BOX.

SPECIFICATION forming part of Letters Patent No. 602,287, dated April 12, 1898.

Application filed January 18, 1898. Serial No. 667,045. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS W. GREEN, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Journal-Boxes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to journal-boxes that are used on heavy and fast-running machinery; and the object of my improvement is to so construct the box that any wear of either the box or the shaft may be easily and quickly taken up, thus assuring at all times a perfect fit and nice adjustment between the shaft and the journal-box.

I attain the desired result by constructing and arranging the several parts of the journal-box in the manner hereinafter described, and more particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a longitudinal sectional view through my improved journal-box, showing the shaft lying therein. Fig. 2 is a vertical sectional view through the journal-box and shaft.

A represents the driving-shaft, lying in the journal-box.

B is a metal bushing surrounding the shaft and having therein a longitudinal slot *a*, that extends the whole length of the said bushing.

C is an eccentric collar fitting around the outside of the bushing and having therein a longitudinal slot *b*.

D is the journal-box, attached to the frame of the machine and constructed in the ordinary manner.

E is a gib located inside of the journal-box and resting upon the top portion of the eccentric collar C.

*c* is a set-screw fitted into the top of the journal-box and operating upon the gib E.

*d* is a set-screw in the lower part of the journal-box and operating upon the wedge-shaped block *d'*, fitting into the slot *b* in the bottom part of the eccentric collar C.

*a' a'* are two small set-screws passing through the eccentric collar and entering a short distance into the bushing B to prevent said bushing turning with the shaft A.

The journal-box being constructed as shown, when desiring to take up any wear on the shaft A or the bushing B, the lower set-screw *d* is first unscrewed slightly to allow the wedge-shaped block *d'* to fall some distance out of the slot *b*. The upper set-screw *c* is then screwed downwardly upon the gib E, forcing it against the top of the eccentric collar C, causing said collar to close around the bushing B and draw it snugly around the shaft A, thus taking up any wear in either the bushing B or the axle A.

The openings in the bushing B into which the points of the set-screws *a' a'* fit are made slightly oblong to allow the bushing to close easily and regularly when the gib E is forced down by the set-screw *c*.

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

1. In a journal-box, an open bushing surrounding the shaft and concentric therewith, in combination with an open eccentric collar fitting inside the journal-box and means for closing said collar around the bushing, substantially as shown and for the purpose described.

2. In a journal-box, the combination of the shaft A, and bushing B formed concentric with the shaft and having therein a longitudinal slot, with the open eccentric collar C, and the gib E, resting upon the eccentric collar and means for compressing said gib against the eccentric collar and thereby closing the concentric bushing around the shaft, substantially as shown and described.

3. In a journal-box, the open bushing B, adapted to fit around the shaft and concentric therewith, in combination with the open eccentric collar C, fitting around the bushing B, the gib E, and the set-screw *c*, substantially as shown.

4. In a journal-box, the open bushing B, adapted to fit around the shaft A, and formed concentric therewith, in combination with the

open eccentric collar C, the wedge-shaped  
block  $d'$ , fitting into the slot  $b$ , means for mov-  
ing the block up and down, and the gib E,  
resting upon the eccentric collar and pro-  
5 vided with means for forcing it against said  
collar, all arranged substantially as shown  
and for the purpose described.

In testimony whereof I affix my signature  
in presence of two witnesses.

THOMAS W. GREEN.

Witnesses:

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