(No Model.)

A. JACKSON.

PILLOW BLOCK.

No. 307,394. Patented Oct. 28, 1884.

Fig. 2.

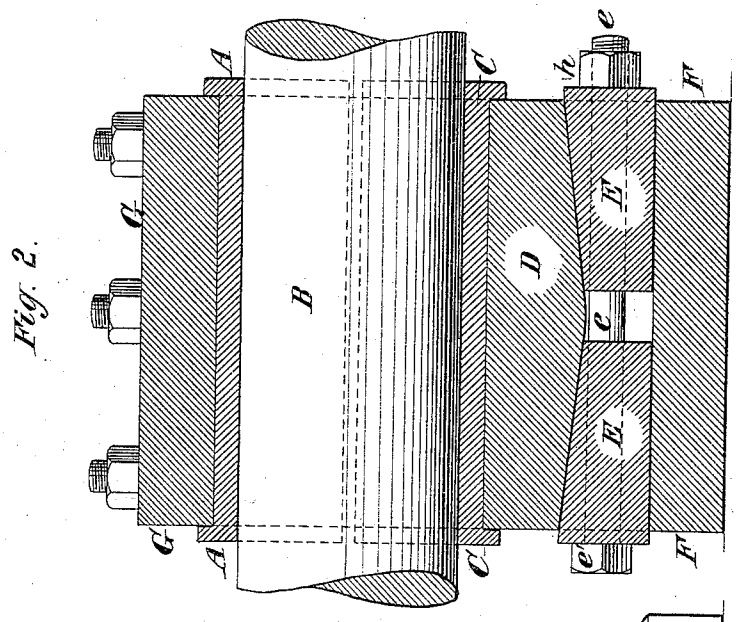
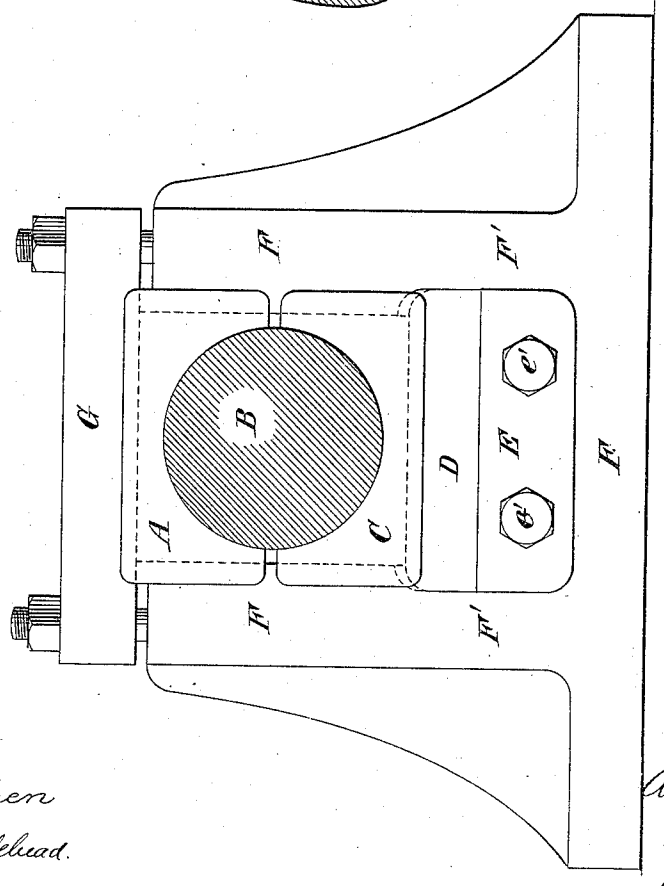


Fig. 1.



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UNITED STATES PATENT OFFICE.

ALBERT JACKSON, OF FAIRHAVEN, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO HENRY R. JACKSON, OF RUTHERFORD, NEW JERSEY.

PILLOW-BLOCK.

SPECIFICATION forming part of Letters Patent No. 307,394, dated October 28, 1884.

Application filed September 5, 1884. (No model.)

To all whom it may concern:

Be it known that I, ALBERT JACKSON, a resident of Fairhaven, in the county of Bristol and State of Massachusetts, have invented a new and useful Improvement in Pillow-Blocks, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to pillow-blocks or shaft-bearings in which are removable brasses or bearings, and the housings of which are commonly provided with removable caps for securing the brasses or bearings in place. In such pillow-blocks or shaft-bearings as commonly constructed it is necessary to remove the cap, the upper brass, and shaft to permit of removing the lower brass or bearing.

The object of my invention is to enable the lower brass or bearing to be readily removed from the housing without disturbing the cap, upper brass, or shaft; and the invention consists in the novel combinations of parts hereinafter described, and pointed out in the claims, whereby the desired result is attained.

Figure 1 is a side elevation of a journal-box with all its accompanying parts, and embodying also my invention. Fig. 2 is a longitudinal sectional view of the same.

Similar letters of reference denote corresponding parts in all the figures.

A designates the upper brass or bearing; B, the shaft or journal; C, the lower brass or bearing; D, the bolster-block; E E, the removable supports of the bolster-block; F, the housings, and G the cap.

The brasses or bearings, the cap, and the housings may be of the common form, except that the housing is provided with an enlargement of its interior space at F′, as illustrated in the drawings, to accommodate my improvement, and to allow the withdrawal of the bearing or brass C. E and E, the removable pieces which support the bolster-block D, may be of any convenient form. In the example given they are illustrated as of wedge shape and retained in position by the bolt *e*, the head *e′* of the bolt being on the outside of one removable piece, and the nut *h* on the outside of the other. The bolster-block D, which is interposed between the removable supports E E and the lower brass or bearing, C, may also be of any convenient form. In the example given its lower side is inclined both ways from the ends to adapt it to the wedge-shape of the removable supports E E. Its other sides are plain surfaces, adapted to fit in under the brass C and between the sides of the housing F. The enlargement F′ of the inner space of the housing F is of such size that it will receive the bolster-block D and the removable supports E E, which are placed therein to support the lower brass, C.

When the various parts of the device are respectively placed in the positions illustrated in the drawings, the shaft may be put in motion, and the operation will be the same as that of an ordinary journal-box; but when for any reason it is desirable to remove the lower brass, C, the shaft is stopped and propped or blocked up in any convenient or well-known way, so that it for the time being will be supported independently of the journal-box. The nut *h* is then removed from the bolt E. The removable pieces E and E are next withdrawn. The bolster-block D, which, on the removal of the supports, will have fallen down upon the bottom of the enlargement F′, is next removed. The lower brass or bearing, C, which will have come down from its position against the shaft or journal B with the bolster-block D, will now fall upon the bottom of the enlargement F′, and may also be removed by drawing it out endwise parallel to the shaft or journal. To replace these parts, the lower brass or bearing, C, with its concave side uppermost, is first put in the enlargement F′ and held up enough to allow the bolster-block D to pass under it into the enlargement. This bolster-block is then put in, so that the flanges of the brass C will embrace its two ends. Two of its sides will be restrained by the housing, and its inclined sides will be downward. The removable supports E and E are next put in, with their inclined sides upward against the inclined sides of the bolster-block D, and adjusted so that the brass C will be held in its proper position with its concave side against the shaft or journal B.

Lastly, the bolts *e* are put in and secured to hold the removable pieces E and E in their places by turning on the nut *h*. Having removed the temporary support from the shaft B, it will now be found ready for work.

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

1. The combination, with the housing of a shaft-bearing and the removable upper and lower brasses or bearings thereof, of a bolster-block supporting the lower brass or bearing and removable blocks or pieces sustaining the said lower brass or bearing in the housing, and capable of being removed from below the bolster-block when the weight of the shaft is taken off the bearing, whereby provision is afforded for dropping the bolster-block and lower brass or bearing away from the shaft, and removing them from the housing without removing the shaft, the upper brass or bearing, or the cap, substantially as herein described.

2. The combination, with the housing of a shaft-bearing and the upper and lower brasses or bearing thereof, of a bolster-block sustaining the lower brass or bearing, and a wedge or wedges introduced below the bolster-block for sustaining the latter, whereby provision is afforded for dropping the lower brass or bearing and the bolster-block and removing them laterally from the housing by removing the wedge or wedges on which the bolster-block rests, substantially as herein described.

3. The combination, with the flanged upper and lower brasses or bearings for a shaft, and a housing to which they are fitted, and which has in its lower portion an opening or cavity wider than the opening for the brasses or bearings, of a bolster-block and a wedge or wedges for sustaining the lower brass or bearing, whereby provision is afforded for dropping the bolster-block and lower flanged brass or bearing, and removing them laterally from the housing by removing said wedges, substantially as herein described.

4. The combination, with the housing and the flanged brass or bearing fitting therein, the housing having the lower opening large enough to receive said flanged brass or bearing, of the bolster-block having its bottom inclined from opposite ends, and the sustaining-wedges, and a bolt or bolts for tightening the same, substantially aa herein described.

ALBERT JACKSON.

Witnesses:
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