

(No Model.)

G. R. CULLINGWORTH.

JOURNAL BOX.

No. 287,006.

Patented Oct. 23, 1883.

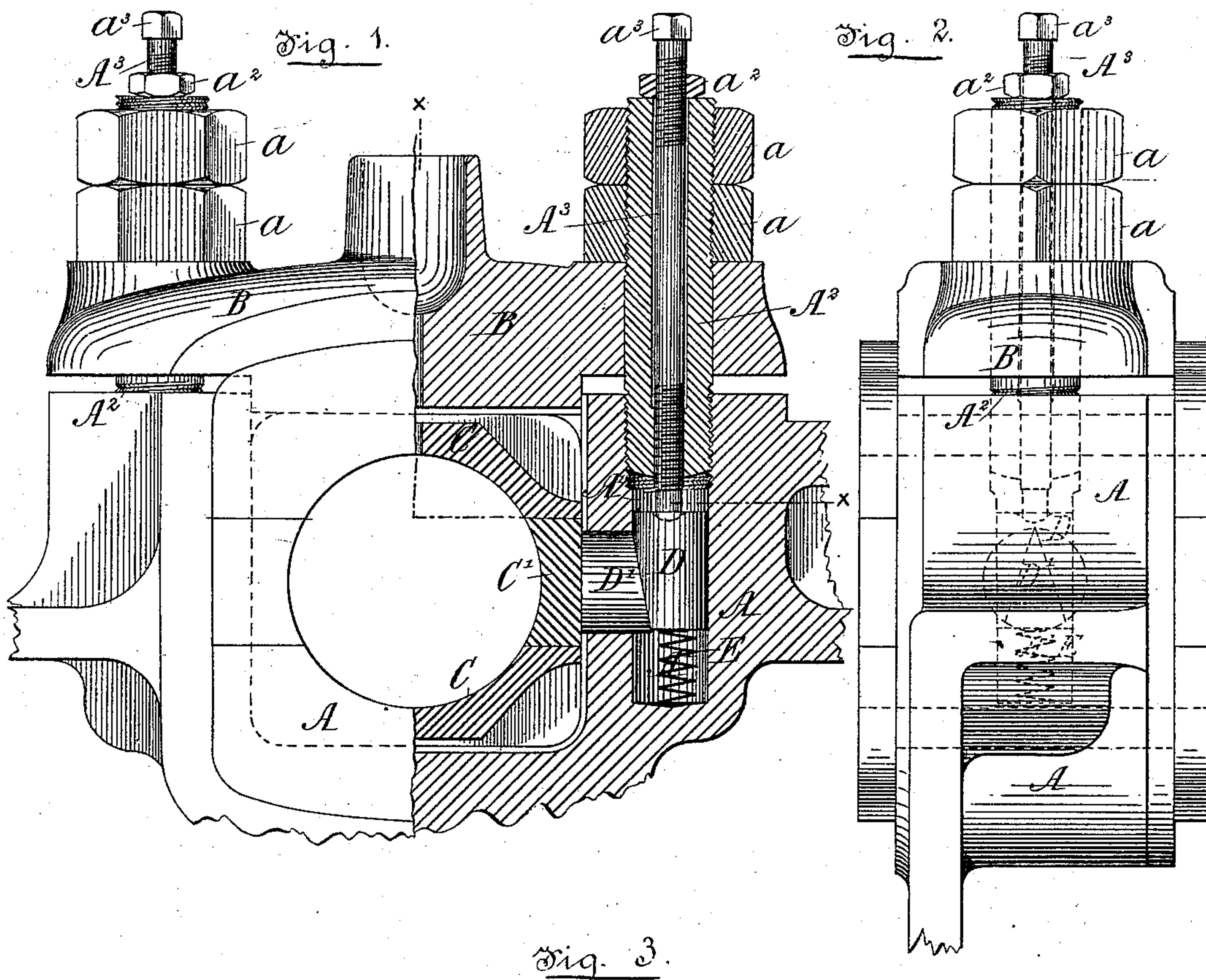
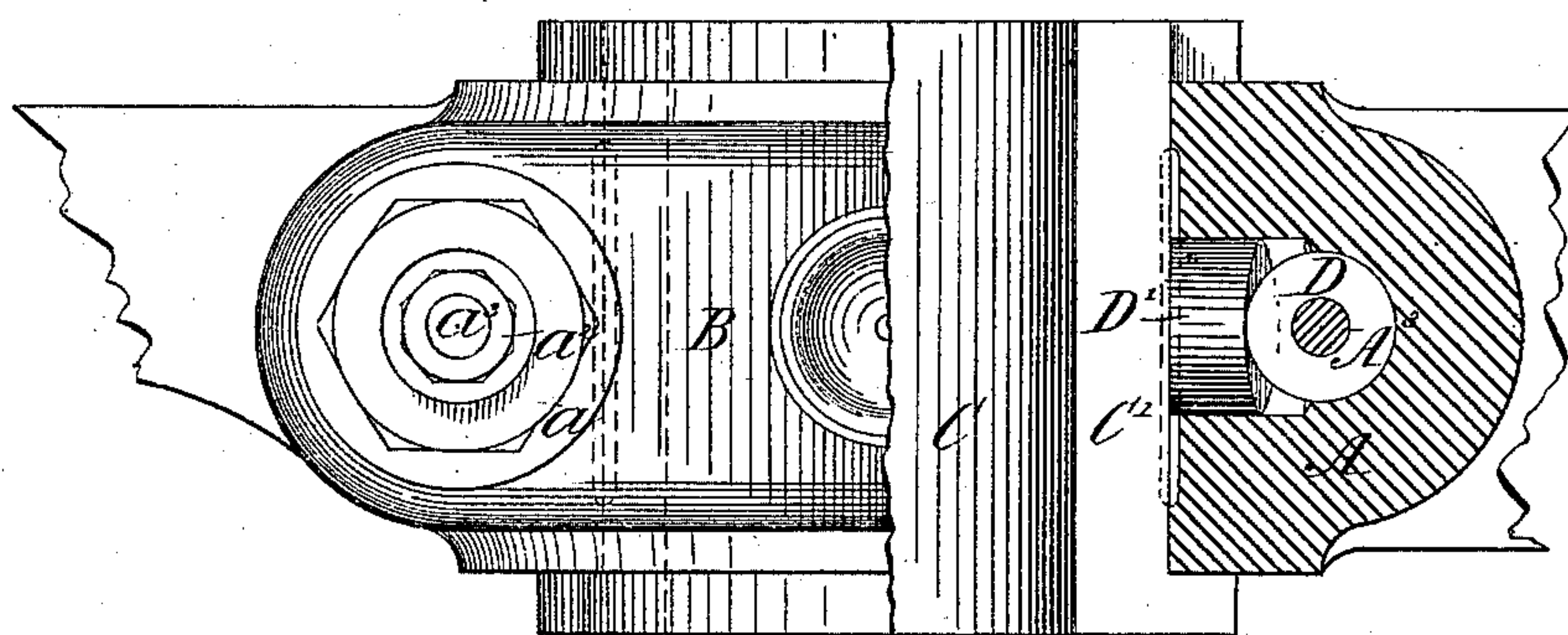


Fig. 3.



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UNITED STATES PATENT OFFICE.

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JOURNAL-BOX.

SPECIFICATION forming part of Letters Patent No. 287,006, dated October 23, 1883.

Application filed February 21, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE R. CULLINGWORTH, of the city and county of New York, in the State of New York, have invented certain new and useful Improvements in Journal-Boxes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings.

My invention has reference to improvements in that class of journal-boxes commonly used in machinery, having their brasses or linings made up of top, bottom, and side sections, and has for its object to provide convenient means for readily adjusting the side sections as they become loosened by wear or otherwise. When brasses made up of four sections have been used, it has been the common practice to employ set-screws screwing through the sides of the box to provide for the adjustment of the side pieces; but these set-screws cannot in all cases be conveniently applied. The object of my invention is to provide a more convenient means of adjustment, and one which is applicable in cases where side screws could not well be applied.

My invention consists, principally, in the combination, with the side sections of the brasses or lining, of wedges and screws for operating said wedges working through the bolts by which the cap of the box is secured, the said bolts being made hollow for the reception and passage of the said screws.

It also consists in certain details of construction, as hereinafter fully described.

Figure 1 represents a side view of my invention, one-half being in section to show the means of adjustment. Fig. 2 is an end view of the same; and Fig. 3 is a plan view, part of which is cut away on the line *xx* of Fig. 1, and showing the wedges in position.

A represents the pillow-block of any piece of machinery containing the brasses, made up of top and bottom sections, C C, and side sections, C' C'. This pillow-block is furnished with the usual cap, B, and with bolts A², fitted with nuts *a a* for securing and adjusting the said cap, the said nuts and bolts being like those commonly employed, except that the bolts are hollow. The said block is also bored or cored below each of the said bolts, as shown

at A' in Fig. 1, for the reception of an upright wedge, D, for adjusting the side section, C', of the brasses or lining on its respective side of the block. The said block is also bored or cored out to receive horizontal wedges or wedging-pieces D', against which the said wedges D bear to adjust and hold the side sections, C', of the brasses or lining. Through the center of the hollow bolt A² is inserted the adjusting-screw A³, which screws in a screw-thread provided in the lower part of the interior of the bolt A. This screw A³ extends downward somewhat beyond the lower end of the bolt A², bearing against the upper surface of the wedge D. The beveled surface of this wedge D bears against the beveled surface of the horizontal wedge D', sliding within the grooves or channel cored or otherwise made for it in the pillow-block A, and so placed as to come in contact with the side section, C', of the brasses. The upper part of the adjusting-screw is threaded to receive a set-nut, *a*, which screws down onto the upper end of the bolt A², and has its upper end formed with a suitable head, *a*³, to receive a wrench. When it is desired to close in the sections of the brasses around the shaft after the same have become loosened through friction or otherwise, the nuts *a*² are raised or slackened, and the screws A³ screwed down through the bolts A², which will have the effect of causing the wedges D to be forced downward and press in the horizontal wedges or wedging-pieces D' upon the side sections, C', of the brasses.

A suitable spring, E, may be placed in the bottom of each channel A', and caused to bear against the wedge D, which will prevent it from passing beyond the wedge D'. It will also assist the wedge D to bear firmly against the end of the bolt A³, keeping the parts firm with relation to each other.

Although I have fully described only one side of the journal-box, it will of course be understood that the other side is provided with a similar means of adjustment. The springs E also serve to prevent the wedges D from dropping down past an operative position when the side sections, C', and their respective wedges or wedging-pieces D' are removed.

The wedges D and wedging-pieces D' may be of round form in their transverse section,

as shown, or of other form, the channels or ways in which they work being of course of corresponding form. The wedging-pieces D' may be loose or may be attached permanently to the sections C' of the brasses or linings.

I am aware that it is not new to employ, in connection with a journal-box having adjustable side brasses or linings, wedges for adjusting such brasses or linings inward, and screws projecting upward through and above the top of the box for operating the wedges. I therefore do not claim such construction, broadly, but only when the bolts for securing the cap of the box are hollow or tubular and have the wedge-adjusting screws working through them.

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

1. In a journal-box having its brasses or lining made up of top, bottom, and side sec-

tions, the combination, with the side sections and hollow or tubular bolts for holding down and adjusting the cap, of wedges for adjusting the side sections, and screws working through the said hollow bolts for the operation of the said wedges, substantially as and for the purpose herein described.

2. The combination of the pillow-block A, the brasses or lining-sections C C' C', the cap B, the hollow bolts A², the wedges D D', and the screws A³, substantially as and for the purpose herein described.

3. The combination, with the pillow-block A, the wedges D, and their operating device, of the springs E, for the purpose herein specified.

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