(No Model.)

H. W. HILL.

PILLOW BLOCK.

No. 477,543. Patented June 21, 1892.

Fig 1.

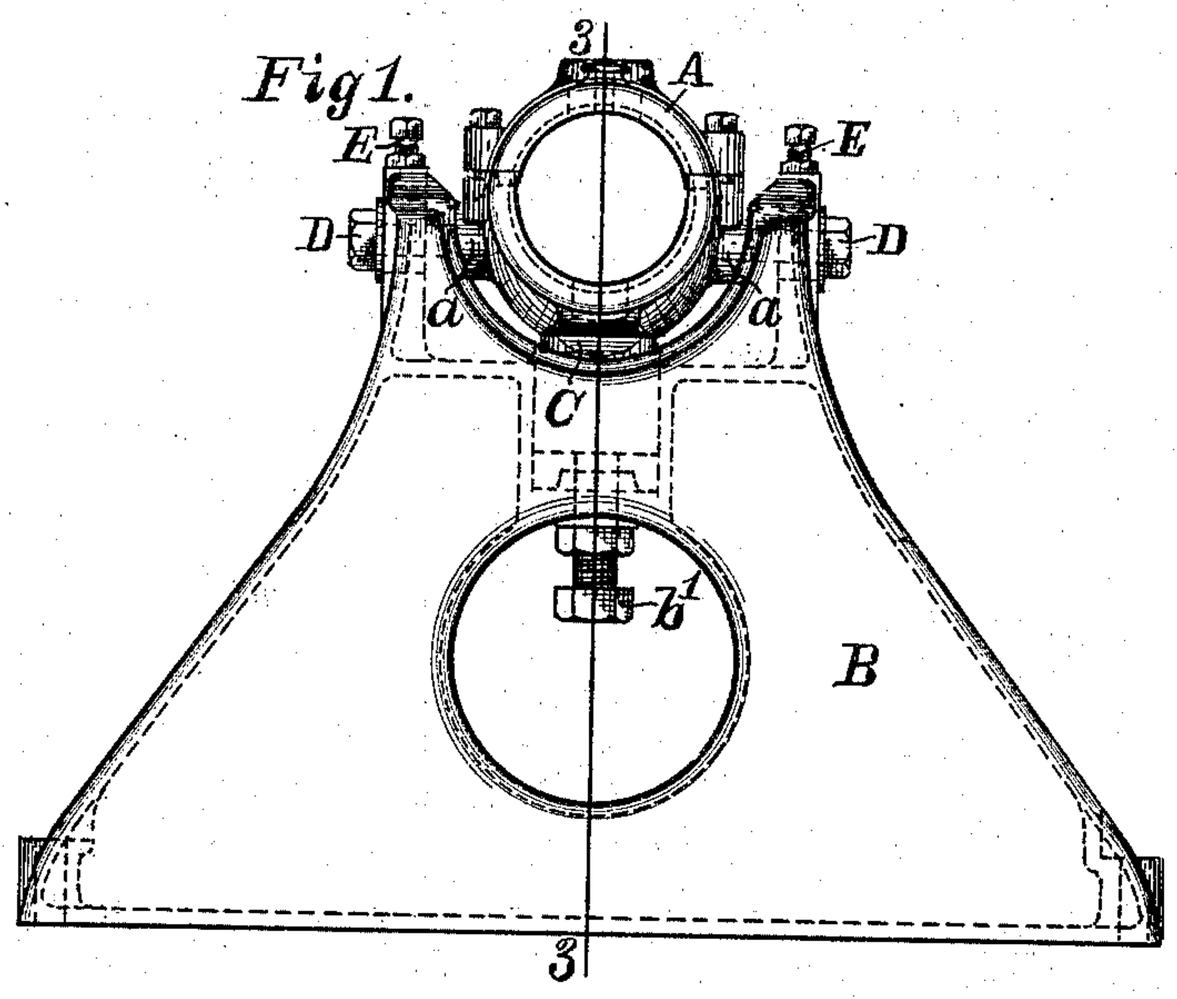


Fig 2.

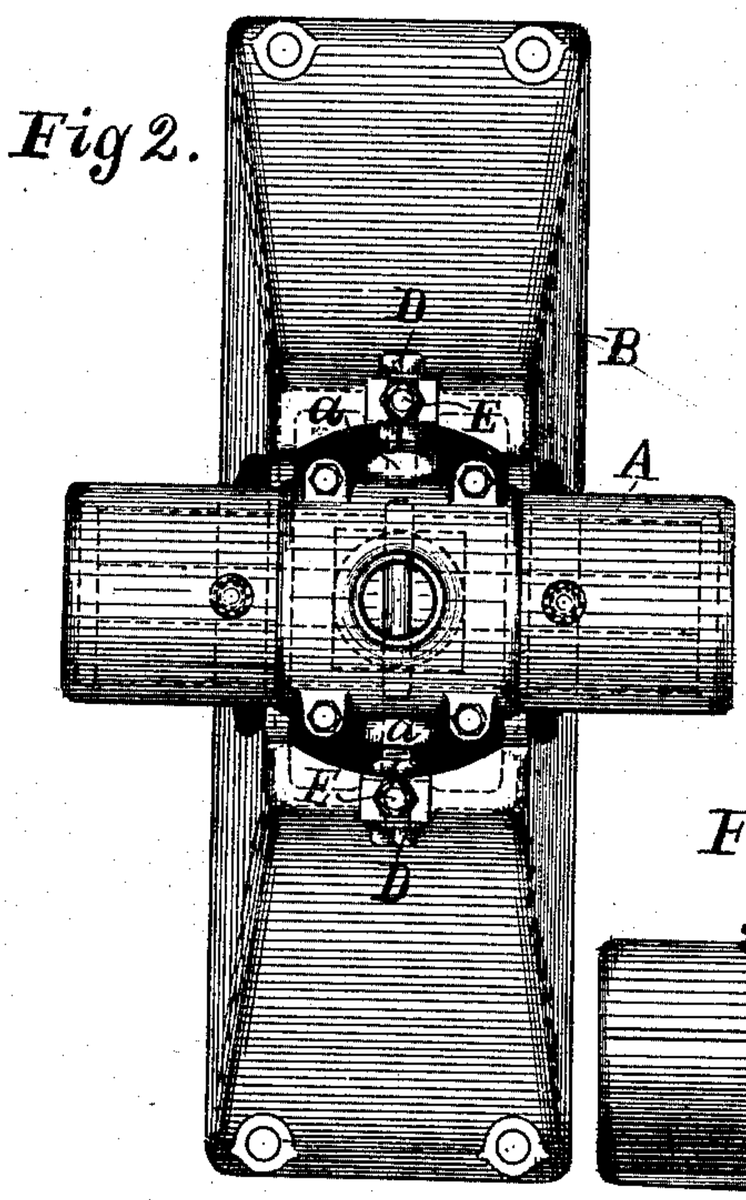


Fig 3.

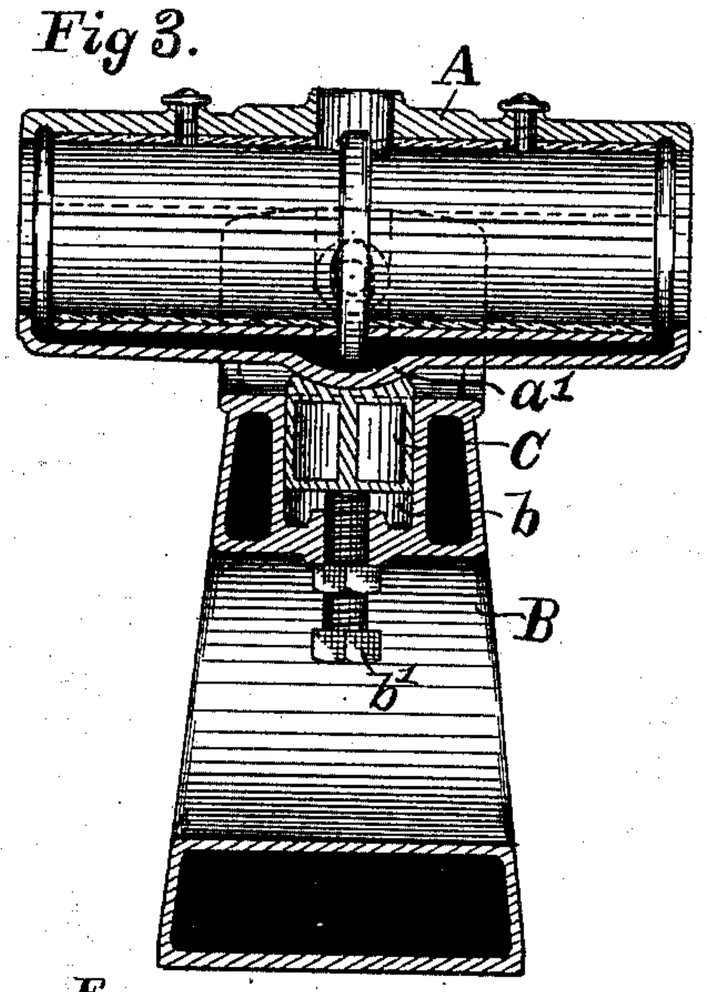
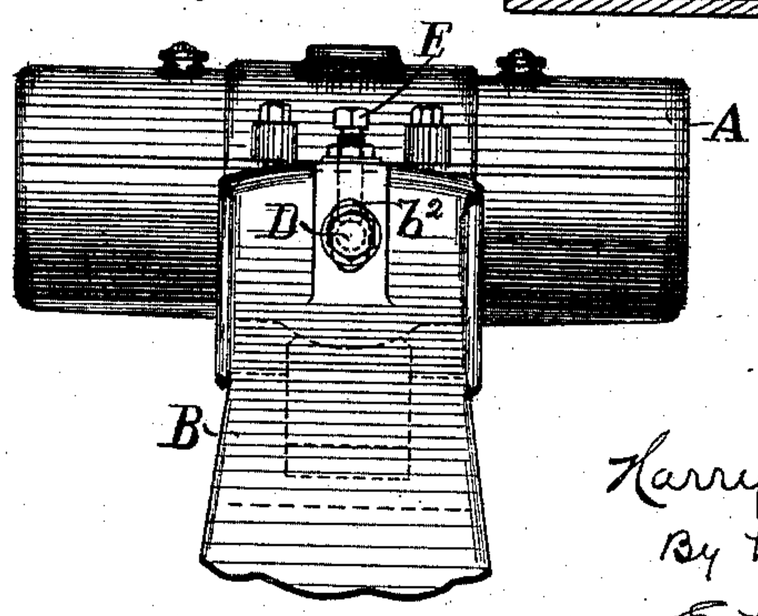


Fig 4.



WITNESSES.

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PILLOW-BLOCK.

SPECIFICATION forming part of Letters Patent No. 477,543, dated June 21, 1892.

Application filed October 1, 1891. Serial No. 407,478. (No model.)

To all whom it may concern:

Be it known that I, HARRY W. HILL, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Pillow-Blocks, of which the following is a specification.

The object of my invention is to provide a pillow-block of novel construction, the box of which shall be adjustable either automatically or otherwise in various directions for the purpose of bringing it into the proper position relative to the shaft which it supports; and the invention consists in the construction and combination of parts hereinafter considered, and pointed out definitely in the claims.

In the drawings, Figure 1 is an end elevation of a pillow-block embodying my invention. Fig. 2 is a plan view of the same. Fig. 3 is a central vertical sectional view on the line 3 3 of Fig. 1. Fig. 4 is a side elevation of the upper part of said pillow-block.

Referring to the parts by letters, A represents the box in which the shaft revolves, and B represents the standard upon which said box is supported and which itself rests upon the floor or other foundation. The standard B is in the form approximately of a truncated pyramid, having its upper part made concave to receive the box. In the upper part of the standard is a vertical cylindrical socket *b*, and an adjustable screw *b'* passes through the lower wall of this socket.

C represents a supporting-block, which fits into the socket *b*, and its lower end rests upon and is supported by the set-screw *b'*.

On each side of the lower section of the box A are the bosses *a*, each of which is provided with a screw-threaded socket. In each side of the upper part of the standard B are the vertical slots b^2, and through each of these slots a bolt D passes loosely and screws into the adjacent boss *a*.

Upon the under side of the box A is a convex projection *a'*. The curved lower surface is cylindrical, the center of curvature being a line passing through the center of the bosses *a*. This convex projection rests upon the similarly-curved concave upper side of the block C.

E represents set-screws, which are screwed downward through the upper parts of the standard B at such points that their ends will bear against those parts of the bolts D which pass through the slots b^2.

The box A rests upon the supporting-block C, and since this block C is vertically adjustable by means of the set-screw *b'* the box A is likewise vertically adjustable. The concave upper side of said block and the convex projection of the under side of the box A permits said box to rock so as to bring its longitudinal axis at various inclinations to a horizontal line. When it is desired to move the box A bodily sidewise, one of the bolts D is unloosened and the bolt D on the other side is screwed into its associate boss *a*, thereby drawing the box toward itself. The screws E by bearing against the bolts D hold the box down upon its supporting-block C. The box A may be inclined to the right or left—that is to say, its longitudinal axis, while remaining in the same horizontal plane, may be moved at an inclination to the vertical plane by the turning of the cylindrical block C in its cylindrical socket. The bolts D, being smaller in diameter than the width of the slots b^2, through which they pass, permits this movement to be made automatically.

The invention described and hereinafter claimed may be used in connection with overhead shaft-hangers and with post shaft-hangers as well as with the floor-standard shown in the drawings. No changes are necessary to adapt it to such uses other than to so alter the exterior shape of the supporting part B (herein shown and described as a standard) that it may be connected either to an overhead beam or to a vertical post, as the case may be.

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

1. The combination of the supporting part B, having, first, a vertical cylindrical socket *b*, and, second, the substantially-vertical arms on both sides of said socket, each of which is provided with the vertical slots b^2, a block C, having a concave upper surface seated in said socket, and a vertical set-screw upon which said block rests with a box A, having a convex projection on its bottom and screw-threaded bosses *a* on its sides, and bolts which pass loosely through the slots b^2 b^2 and screw into said bosses, substantially as set forth.

2. The combination of a standard having a concave depression in its upper side, the parts of said standard on each side of the depression being vertically slotted and having a socket in said upper end, a block having a concave upper surface seated in said socket, and a set-screw which screws through the lower wall of said socket and upon which said block rests with a box having a convex projection upon its lower side, having screw-threaded bosses on both sides, bolts which pass loosely through said slots in the standard and screw into said bosses, and the set-screws which bear on said bolts, substantially as and for the purpose specified.

HARRY W. HILL.

Witnesses:
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