

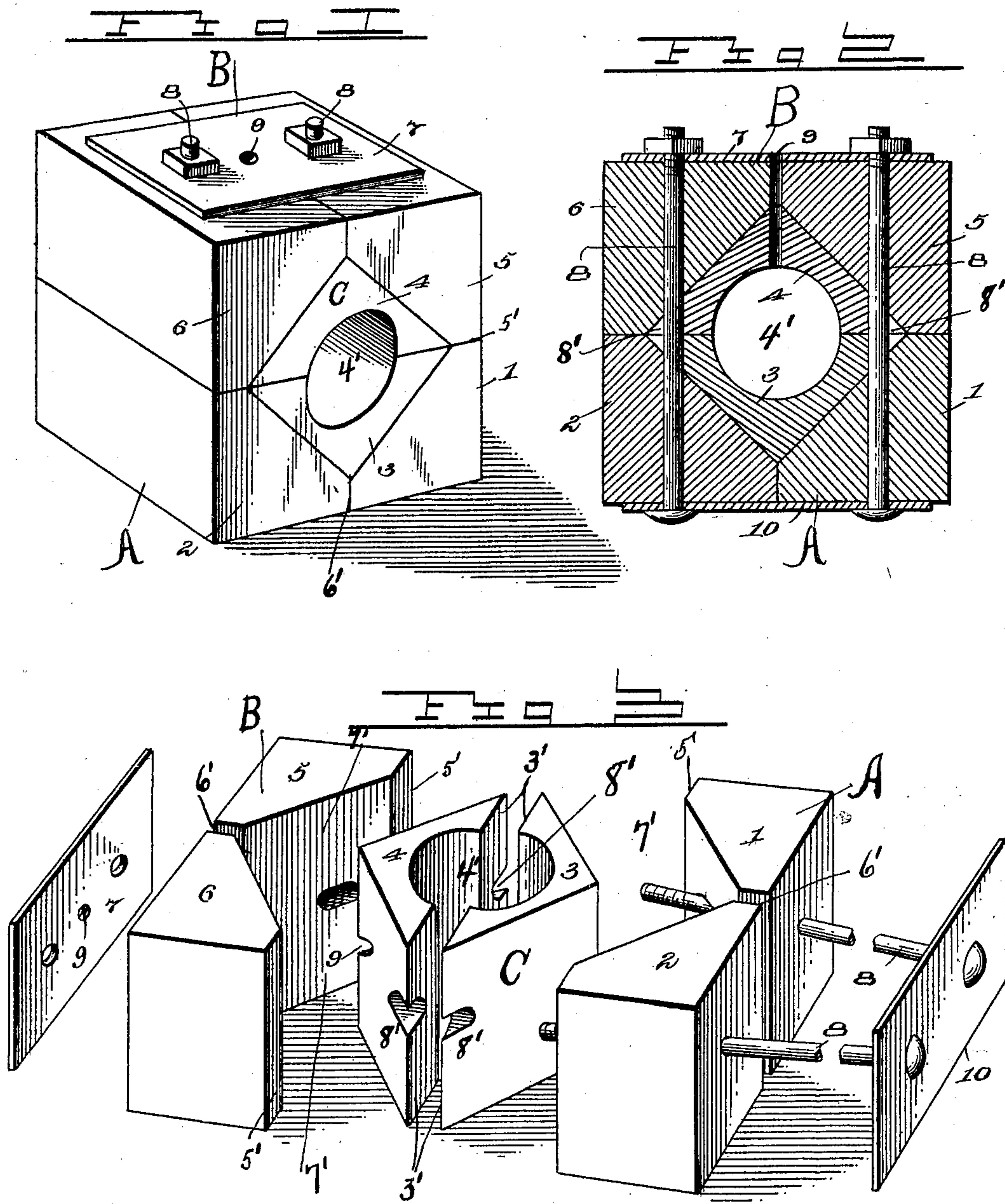
No. 683,126.

Patented Sept. 24, 1901.

C. V. LINQUIST.
SLIDING BLOCK OR BEARING.

(Application filed Mar. 9, 1901.)

(No Model.)



Witnesses
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SLIDING BLOCK OR BEARING.

SPECIFICATION forming part of Letters Patent No. 683,126, dated September 24, 1901.

Application filed March 9, 1901. Serial No. 50,530. (No model.)

To all whom it may concern:

Be it known that I, CARL VICTOR LINQUIST, a citizen of the United States, residing at Clay Center, in the county of Clay and State of Kansas, have invented new and useful Improvements in Sliding Blocks or Bearings, of which the following is a specification.

This invention relates to a sliding block or bearing, it being primarily intended for incorporation in reversing-gear valve mechanism, and though it is of peculiar utility in this connection it may be put to other uses with equally advantageous results.

The object of the invention is especially to provide a device of the character specified of such a construction that the enlargement of the hole therein by friction caused by the journal of an eccentric-strap connected to the block can be easily and quickly taken up without the necessity of substituting a new block for the one so worn.

The invention includes other novel features, which, with the foregoing, will be hereinafter set forth at length and made the basis of the appended claim.

The invention is represented in one simple and convenient embodiment thereof in the accompanying drawings, forming a part of this specification, wherein—

Figure 1 is a perspective view of a sliding block including my improvement. Fig. 2 is a central transverse sectional elevation. Fig. 3 is a perspective view of the block with its several parts separated.

Like characters refer to like parts in all the figures of the drawings.

Certain reversing-gears for steam-engine valves—such, for example, as what is known in the market as the “WoOLF Reverse Gear”—include sliding blocks having journal-openings to receive pivots connecting the same by eccentric-straps to eccentrics. The wear of a pivot against the wall of the journal-opening of such a slide is at times so much as to unduly enlarge the opening, necessitating the putting in of an entirely new block. In the case of my improved block, however, this is not necessary, it being composed, as will hereinafter appear, of a plurality of parts which can be so adjusted relatively to each other as to readily compensate for the worn-away portion without changing the width of

the block, it being necessary that such width should be maintained at a standard, as the block travels in a guide of non-adjustable size.

The sliding block is shown as including two sections, as A and B, said sections in turn being divided into the parts 1 and 2 and 5 and 6, respectively, thereby forming four pieces, which, like a bushing inclosed by the same and to be hereinafter described, may be made from any suitable material.

The engaging faces 5' between the sections A and B are shown as straight, while the inner faces 6' of the subdivisions of said sections are also shown as straight and as contiguous to each other and at right angles to the first-mentioned faces.

The parts 1, 2, 5, and 6 are shown as having similarly-beveled faces, each denoted by 7', and so arranged that when said parts are assembled a rectangular opening is formed to receive a bushing, as C. Said bushing is shown as being rectangular to snugly fit the rectangular opening just alluded to, it being understood that the beveled faces of the bushing correspond with those on the parts of the slide-block. The bushing C has a central hole 4', and it consists of duplicate parts 3 and 4, their engaging faces being denoted by 3' and alining with the straight abutting faces 5'.

Referring to Fig. 2, the parts composing the block are shown as assembled, all the straight faces heretofore mentioned being in contact. Let it be assumed that a pivot passing through the hole or opening 4' has so worn away the wall of the same as to cause lost motion. To secure a proper seating of such pivot, the components of the block will be separated, as will hereinafter appear, and the engaging faces 3' and 5' will be shaved or planed off to an extent sufficient to secure the proper fitting of the pivot in the opening 4'—that is, so that there shall be no wabby or lost motion. When sufficient material has been removed, the several parts will be reassembled, and though the width of the block has not been changed the depth will not be so great as theretofore.

For the purpose of holding the main sections A and B together I have illustrated a pair of tie-bolts, as 8, arranged in parallelism and located, respectively, at opposite sides

of the bushing C, said bolts passing through recesses or slots 8', made at the edges of the bushing, by reason of which the bolts also serve to hold the bushing in place.

5 Face-plates, as 7 and 10, respectively fit against the upper and lower faces of the slide-blocks, and the bolts 8 just mentioned pass through holes in said plates, the heads of the bolts and the nuts thereon fitting against the
10 outer faces of the two plates. The bolts, therefore, secure the plates in place to the block, and said plates tie the parts 1 and 2 and 5 and 6 against accidental separation. The slide-block has a hole or bore, as 9, through
15 which a lubricant can be supplied to a journal operating in the opening 4', the same being formed by mating channels in the parts 5 and 6.

It will be evident from the foregoing that
20 these several parts of the block can be separated with facility and rapidity and that it is simply necessary to remove portions of certain of

the parts to take up wear without the necessity of providing new blocks for this purpose.

Having described the invention, I claim— 25

A block consisting of two main sections having straight engaging faces and each section consisting of at least two parts, said block having a rectangular opening, a rectangular bushing fitted in said opening, said bushing
30 including two parts having straight engaging faces, bolts passing through said sections and through recesses at edges of the bushing, and plates fitted against the block, having holes
35 to receive said bolts.

In testimony whereof I have hereunto set my hand in presence of subscribing witnesses.

CARL VICTOR LINQUIST.

Witnesses:

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