

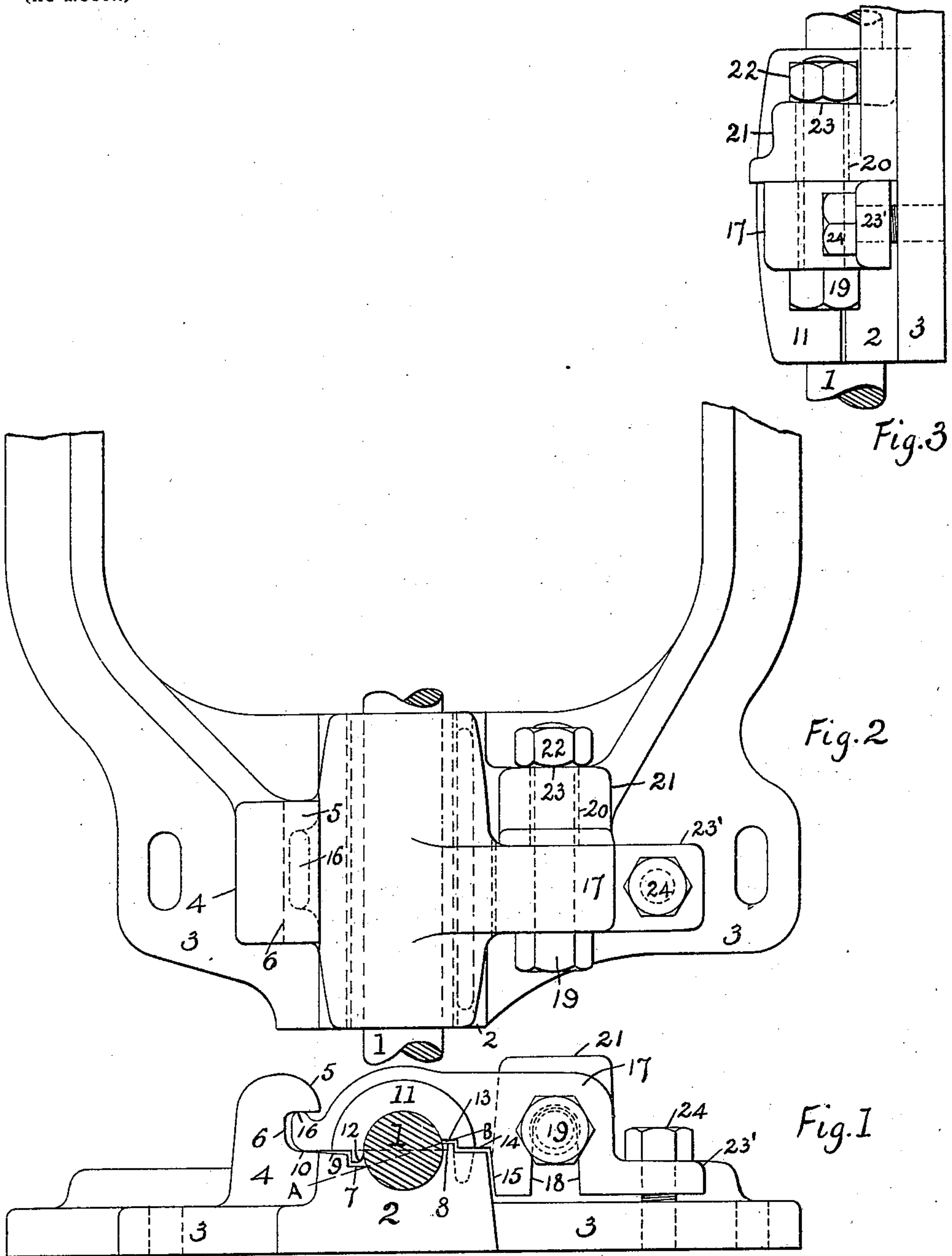
No. 667,412.

Patented Feb. 5, 1901.

W. G. VERNON.  
JOURNAL BEARING.

(Application filed Oct. 6, 1900.)

(No Model.)



Witnesses  
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# UNITED STATES PATENT OFFICE.

WILLIAM G. VERNON, OF WALLINGFORD, PENNSYLVANIA.

## JOURNAL-BEARING.

SPECIFICATION forming part of Letters Patent No. 667,412, dated February 5, 1901.

Application filed October 6, 1900. Serial No. 32,235. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM G. VERNON, a citizen of the United States, residing at Wallingford, in the county of Delaware and State of Pennsylvania, have invented certain new and useful Improvements in Journal-Bearings, of which the following is a specification.

The objects of my invention are to construct a journal-bearing which may be used generally for machinery in a manner to dispense with the numerous bolts heretofore used to secure the cap to the journal-bearing, to insure by my construction a more free and perfect contact of the cap upon the journal and an absence of cramping, pinching, and straining of the cap to the journal, as is done where numerous bolts are used and which are liable to be unequally forced, thereby causing undue friction, owing to a lack of means to positively ascertain when the cap just touches the journal and to then secure it properly.

The means I employ in my invention are illustrated in the accompanying drawings, in which—

Figure 1 is an end view of part of a framework of a machine, showing one journal fitted with my mechanism. Fig. 2 is a plan of Fig. 1. Fig. 3 is a side elevation.

Similar figures of reference indicate similar parts throughout the views.

The journal 1, as here illustrated, is placed in a seat 2 of a framework 3. Extending upward from one side of seat 3 is a lug 4, having an upper part 5, which projects toward the journal 1 and forms a pocket 6, open at the journal side and at each end. The journal-seat 2 has at the lug side a recess 7, below the journal's horizontal center, and at the opposite side a projection 8, which extends above the journal's center line. Beyond 7 is an upward projection 9, terminating in a surface 10, which is inclined upward and outward and forms the bottom of pocket 6. A cap 11 is placed on journal 1. It has a projection 12, freely entering recess 7, and a recess 13, freely extending over projection 8 and also freely extending around seat 2 at 14 15. A projection 16 on cap 11 enters pocket 6 and is rounded at its top to form a fulcrum where it interlocks and bears under the flat surface of part 5 of pocket 6. At the side of cap 11 opposite projection 12 is a lug 17, extending downward and bifurcated at 18 to pass over a bolt

19, which is secured in a free hole 20 formed in lug 21 on framework 3 as shown in the drawings. The bolt 20 has a nut 22, rounded upon its bearing-surface against the tapered side 23 of lug 21. The taper is so made as to have the lug 21 thicker at the top than at the bottom, and thereby overcome any tendency of bolt 19 to move or be forced upward if its nut 22 becomes loosened.

By means of the mechanism described the cap 11 is laid upon and slid along journal 1 until its projection 16 enters under part 5 of lug 4 in pocket 6, the intention being to have surface 5 low enough to have the cap slightly tilted at its side opposite lug 16 during such placing of the cap, and when lug 16 is in place lug 17 will abut lug 21. Now by the simple pressure of the hand on cap 11 or its lug 17 the cap will be adjusted transversely and vertically to a free seat on the journal 1, when it may be secured by tightening nut 22 of bolt 19, the construction heretofore described permitting the free and unbinding seating of the cap on the journal. Where belts are so arranged and driven as to force the journal against the cap, I add the lug 23' to lug 17 and therethrough place the bolt 24, tapped into frame 3, as an additional safeguard.

Many modifications to suit machines of different constructions may be made and caps may be applied below or to one side of the journal without departing from my invention.

I claim—

1. A journal, a seat, and a cap therefor, means to fulcrum the cap to the seat at one side of the journal, and oppositely thereto horizontal-acting means, safeguarded by a vertical-inclined surface to secure the cap, when adjusted to its place on the journal.

2. A journal, a seat, and a cap therefor, means to fulcrum the cap to the seat at one side of the journal, and oppositely thereto horizontal-acting means to secure the cap when adjusted to the journal, and additional vertical-acting means to safeguard and secure the cap aforesaid.

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

WILLIAM G. VERNON.

Witnesses:

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