

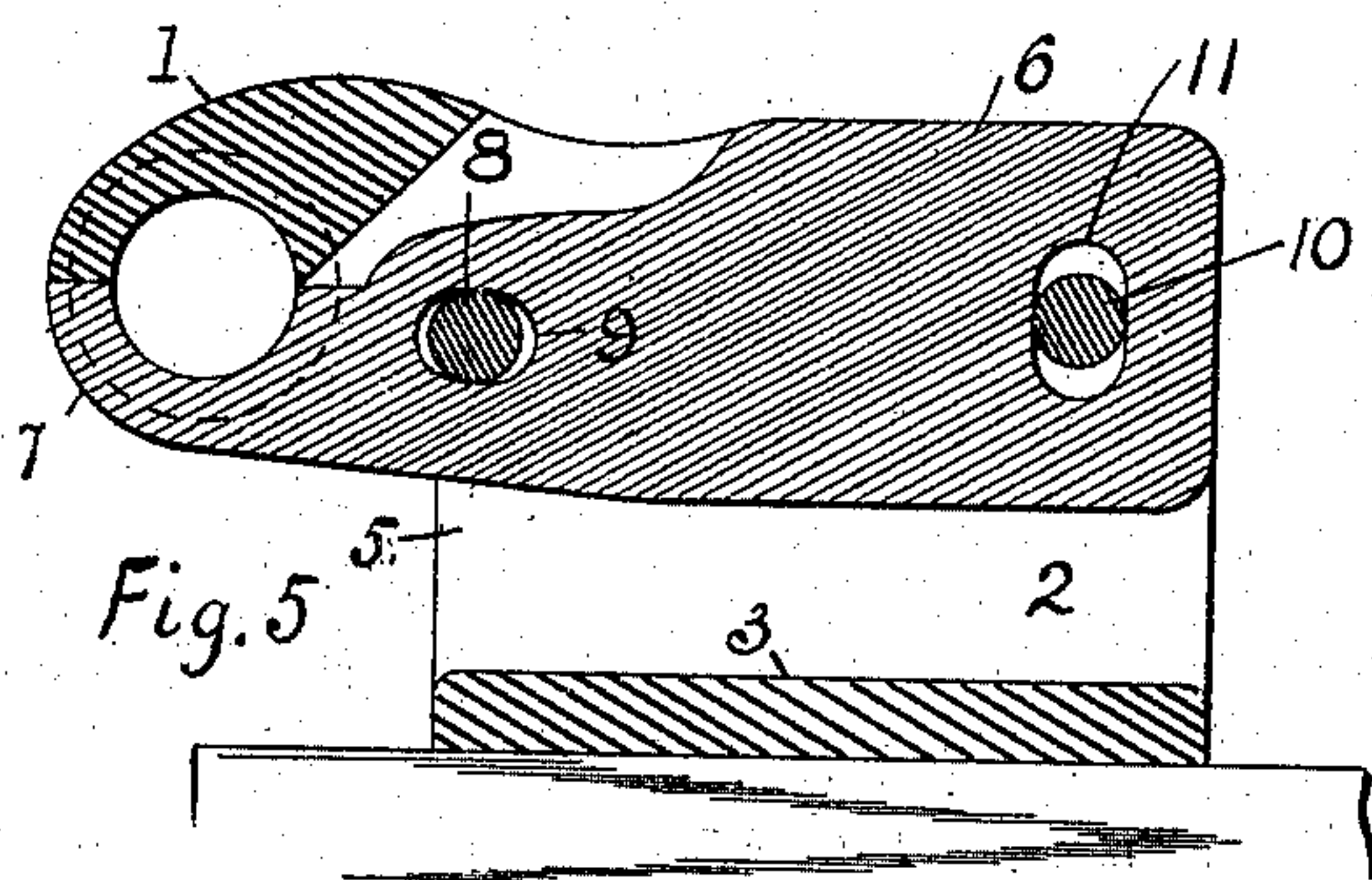
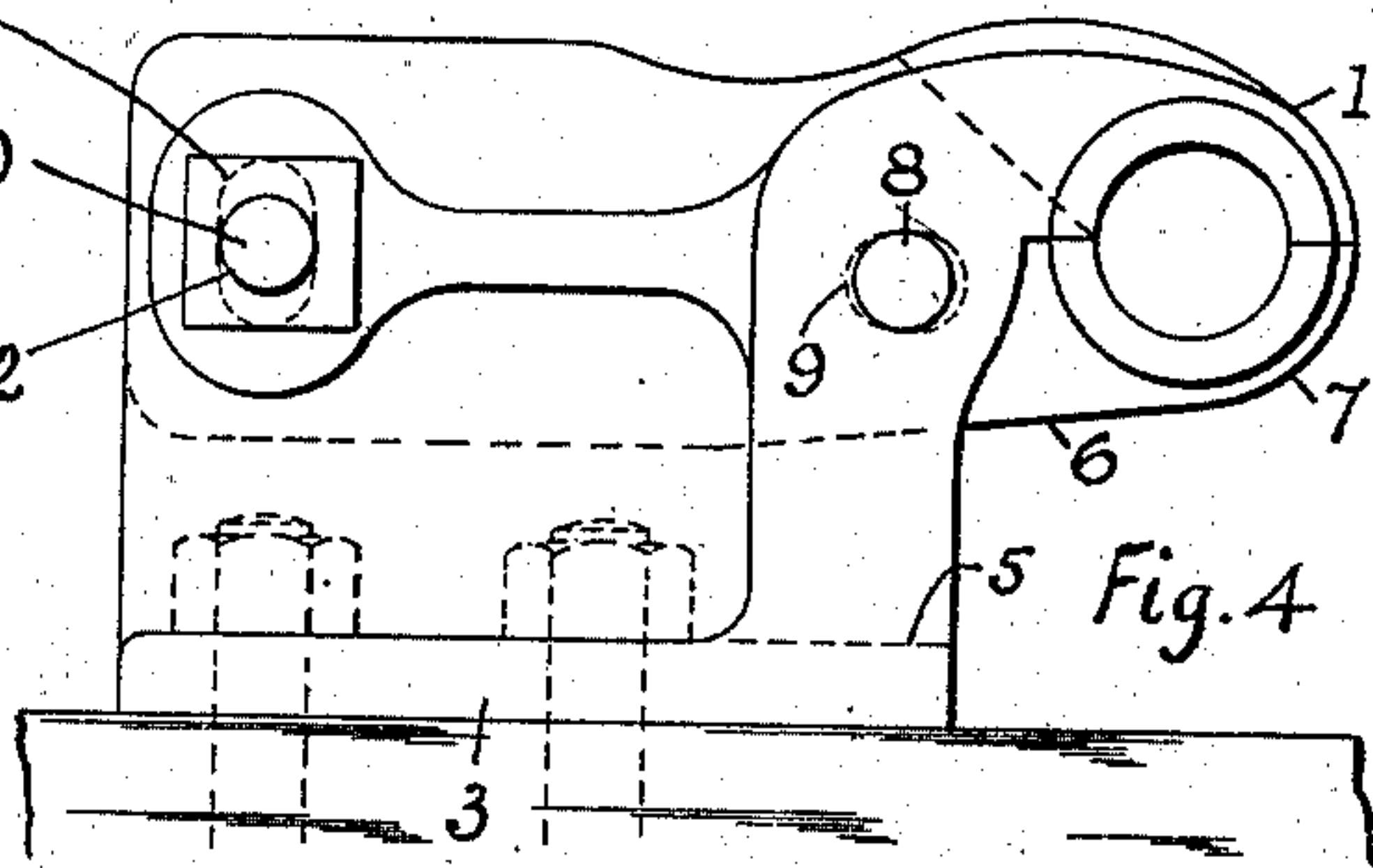
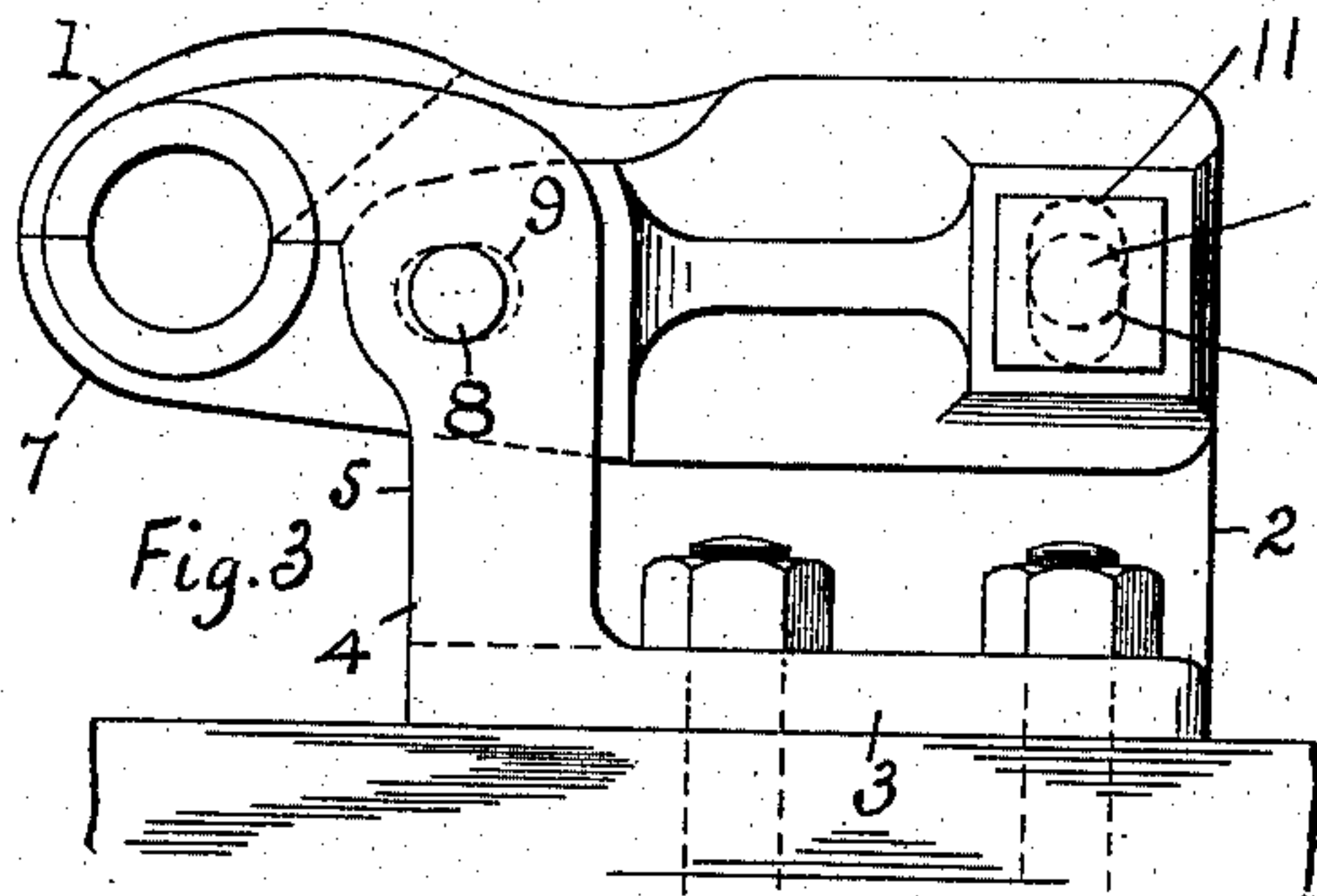
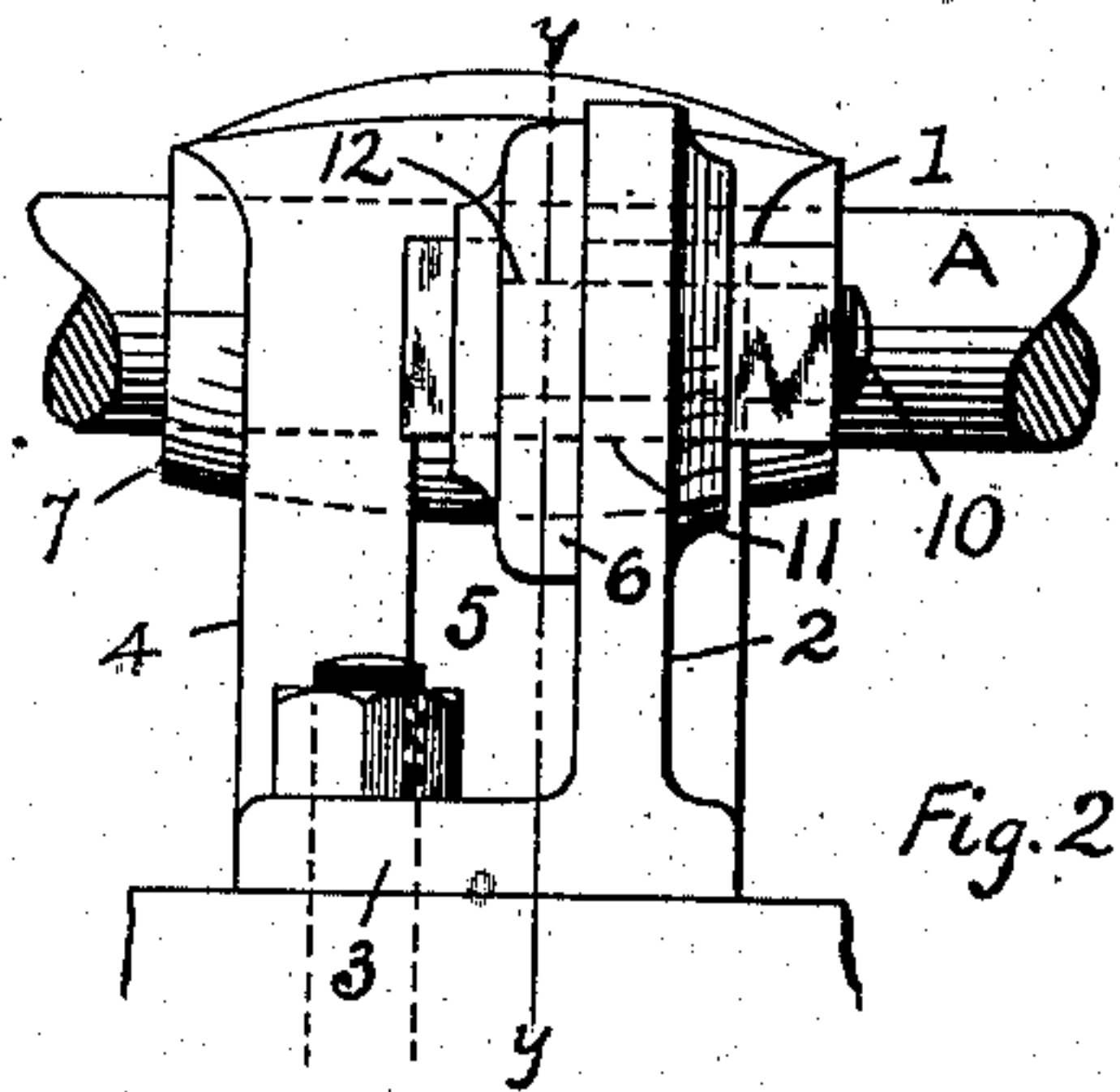
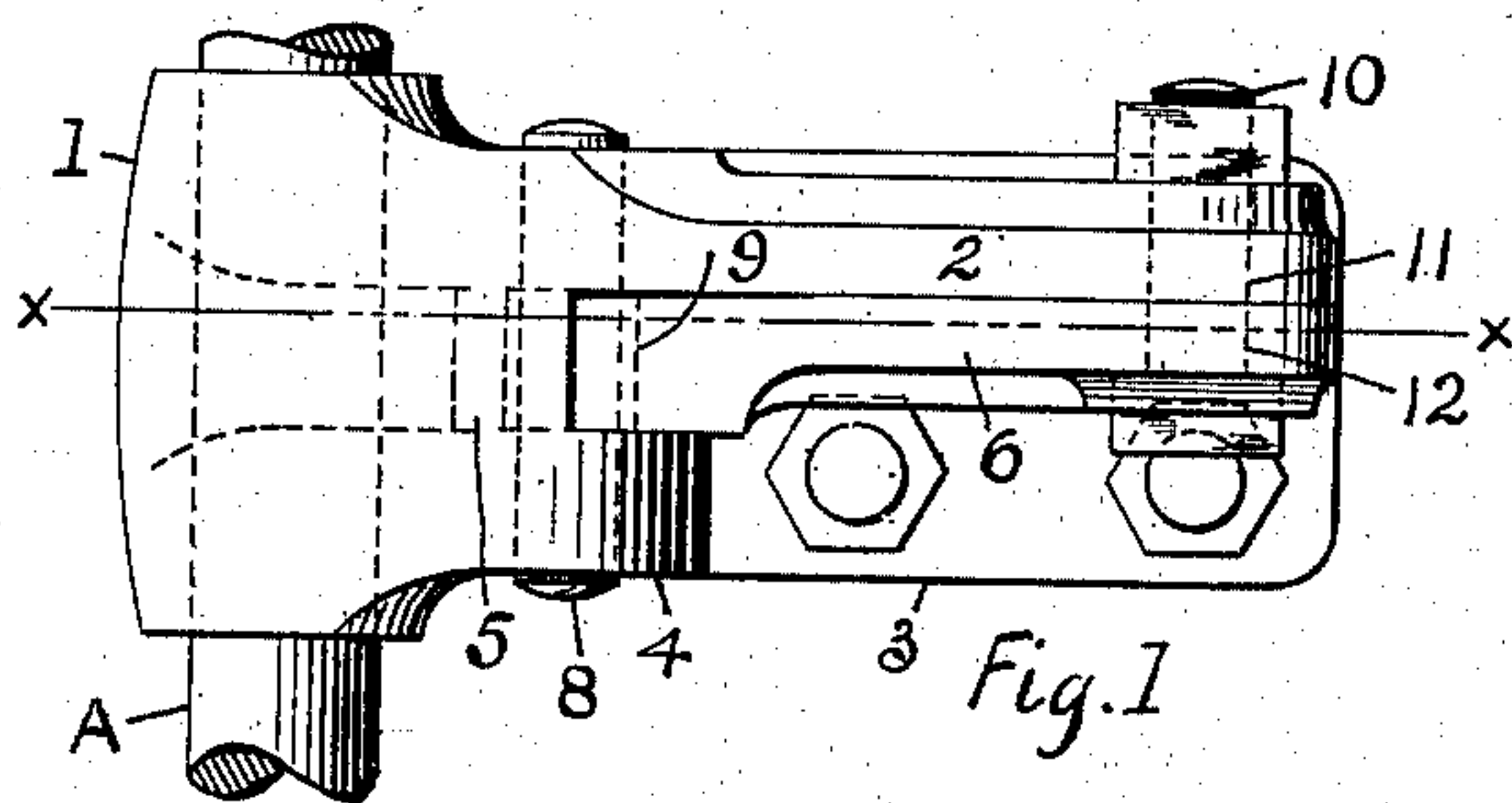
No. 712,425.

Patented Oct. 28, 1902.

W. G. VERNON.
JOURNAL BEARING.

(Application filed Dec. 18, 1901.)

(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. 712,425, dated October 28, 1902.

Application filed December 18, 1901. Serial No. 86,353. (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.

My invention relates to improvements in journal-bearings for general machinery or such as woodworking, grinding, and other high-speed machines, where it is especially essential to avoid cramping the journal and at the same time avoid creating any lost motion, which at high speed is ruinous to the bearing and the journal as well as dangerous for the operative.

The subject of this application is an improvement on the previous one for which I was granted Patent No. 667,412, February 5, 1901, and I now provide for a more positive holding of the cap to its place in true alignment with the journal and with more surface-contact to insure the retaining of such alignment by simple and inexpensive construction readily operative by a person of ordinary intelligence.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 is a plan or top view of a machine journal-bearing. Fig. 2 is an end view at the end opposite the bearing. Fig. 3 is an elevation taken at the adjustable side. Fig. 4 is an elevation taken at the fixed or stationary side. Fig. 5 is a vertical section on line $x x$, Fig. 1, and line $y y$, Fig. 2.

Similar characters of reference indicate similar parts throughout the views.

In Figs. 1 to 5, inclusive, 1 is the stationary bearing for a journal A, which is secured to a plate 2, placed at a right angle to the journal's central line, and, as shown, stands vertical and is joined to a base-plate 3, which may be utilized for securing the bearing to a machine. An upright part 4 joins base 3 and bearing 1 oppositely to plate 2, and an opening 5 is formed between 2 and 4 under bear-

ing 1, and therethrough is inserted plate 6, attached to bearing-cap 7. Plate 6 has a broad surface lying against plate 2 and is pivoted on a pin 8 for vertical adjustment, the plate having an oblong hole 9, through which pin 8 passes, so that the cap is free to find its true seat on the journal and without the cap being cramped, while its alinement with the journal is positively assured. The pin 8 being supported and firmly held at each end is more secure than the means employed in my previous invention, and my present mechanism is more positive and stable in every way. A bolt 10 passes through slot 11 in plate 2 and hole 12 in plate 6, and when cap 7 finds its position on the journal the bolt 10 will force plate 6 to plate 2 and retain the cap in place. As illustrated, the journal is arranged for an overhead belt; but by reversing the parts so that the seat 3 will be placed uppermost the position will be correct for a belt running up from below, the pull in each case being against bearing 1.

I claim—

In a journal-bearing, a stationary part embracing a portion of the journal and having a flat portion at about a right angle to the central line of the bearing, a support for the bearing placed opposite the flat portion and joined to the bearing, there being an open space between the plate and the support, a pin seated at its ends in the plate and in the support and reaching across the open space, a cap for the bearing, inserted in the open space, pivoted upon the pin, and having means for self-adjustment on the pin to allow the cap to seat on the journal, there being a flat portion on the cap adapted to abut the flat portion of the bearing, and means to secure the flat portions to each other.

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

WILLIAM G. VERNON.

Witnesses:

WILLIAM C. STOEVEY,
R. C. WRIGHT.