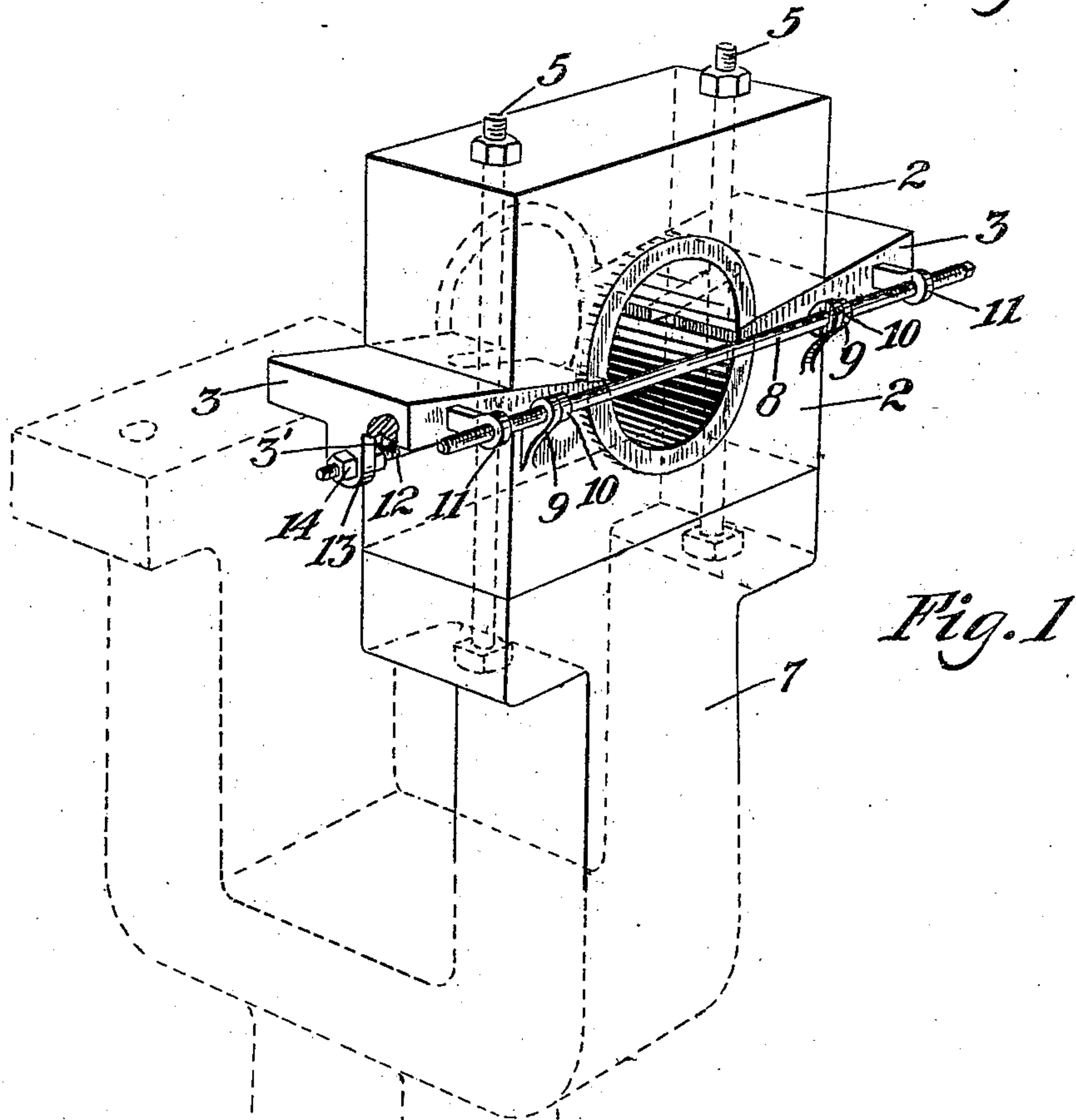
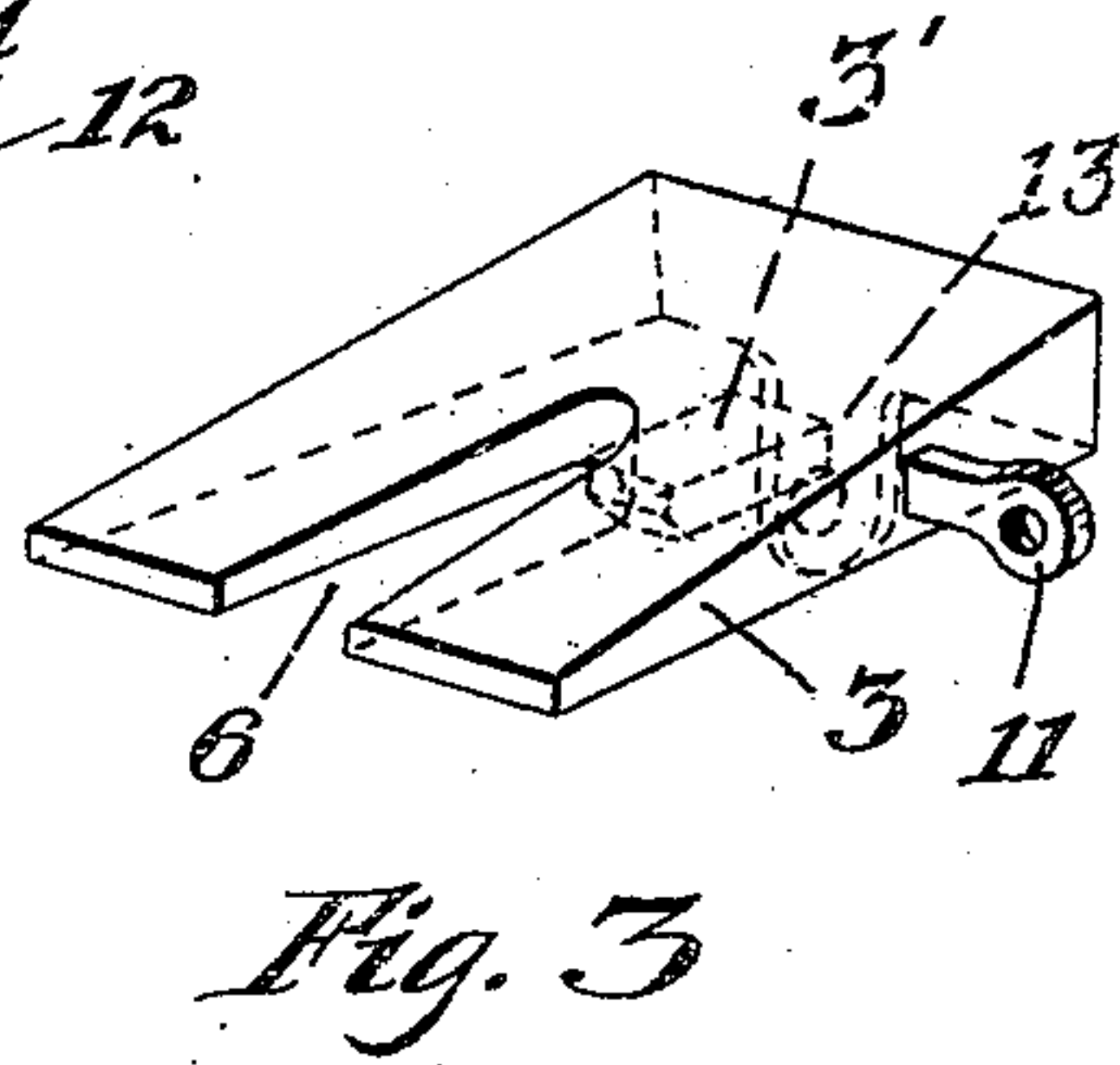
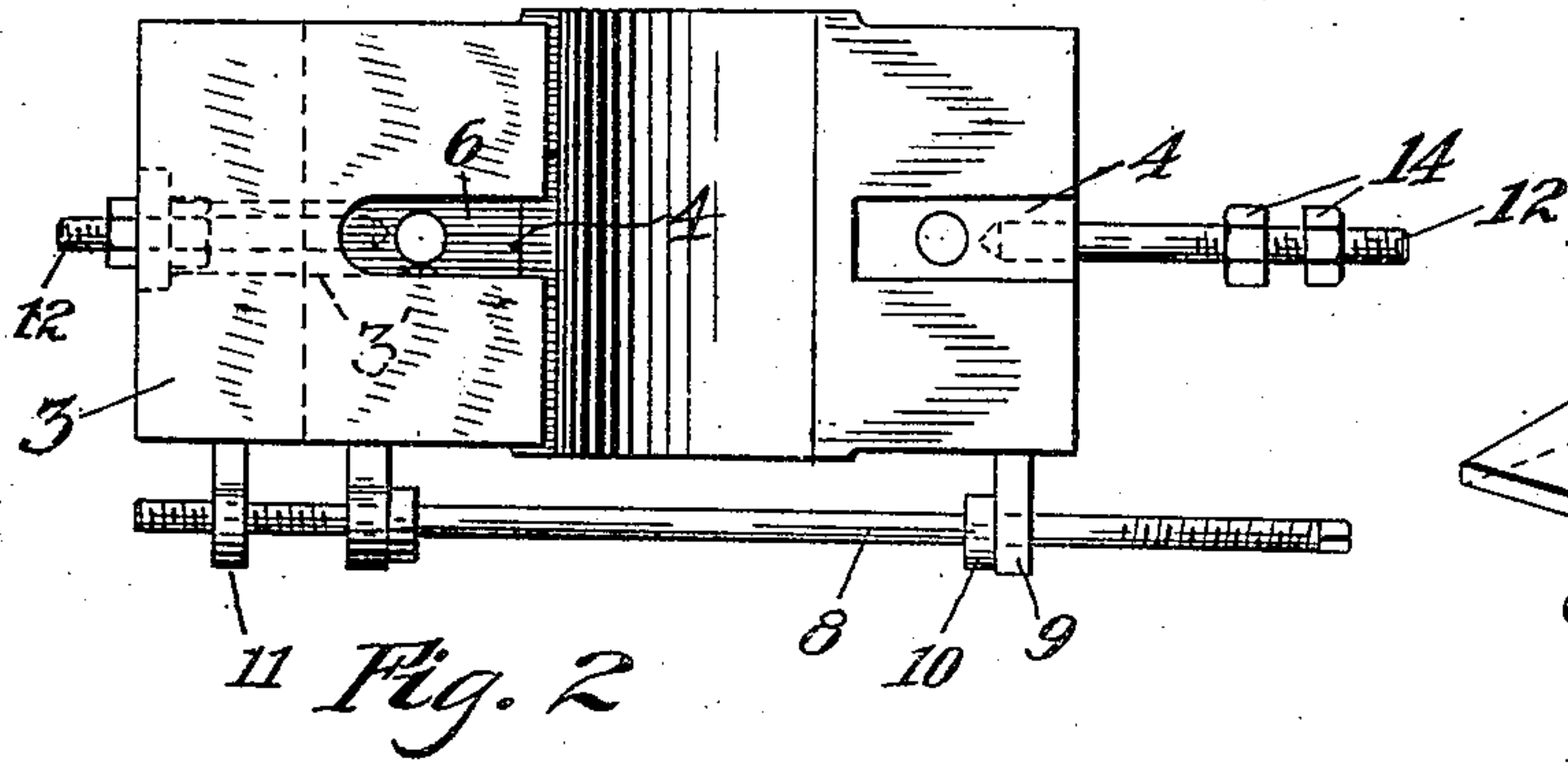


No. 848,224.

PATENTED MAR. 26, 1907.

E. S. CLOUGH.
ADJUSTABLE BEARING.
APPLICATION FILED MAR. 27, 1906.



Witnesses

Artita Adams
Edward W. Cressman.

By

Inventor
Edwin S. Clough.
Adams & Brooks.
Attorneys.

UNITED STATES PATENT OFFICE.

EDWIN S. CLOUGH, OF SEATTLE, WASHINGTON.

ADJUSTABLE BEARING.

No. 848,224.

Specification of Letters Patent.

Patented March 26, 1907.

Application filed March 27, 1906. Serial No. 308,366.

To all whom it may concern:

Be it known that I, EDWIN S. CLOUGH, a citizen of the United States of America, and a resident of the city of Seattle, in the county of King and State of Washington, have invented certain new and useful Improvements in Adjustable Bearings, of which the following is a specification.

My invention relates to new and useful improvements in adjustable bearings, and has for its primary object the provision of simplified and improved means for adjusting the brasses of the box or bearing to compensate for wear, and thereby obviating the requirement of shims.

With the above and other objects in view, to be referred to as the description progresses, the invention consists of the construction, parts, arrangement, and combinations of parts hereinafter described, and succinctly defined in the appended claims.

In the accompanying drawing, in which like numerals of reference indicate like parts throughout the several views, Figure 1 is a view in perspective of a journal-box constructed in accordance with my invention, the same being mounted on the upper end of a connecting-rod, shown for its major portion by broken lines. Fig. 2 is a top plan view of the journal-box, the upper section and one of the wedge members being removed; and Fig. 3 is a detail view in perspective of one of the wedge members.

The journal-box consists of upper and lower sections or brasses 2, between which are oppositely-disposed wedges or wedge members 3, the same being provided on their lower faces with guides in the form of ribs 3', which engage in grooves 4, formed in the upper face of the lower brass. (See Fig. 2.)

Reference-numeral 5 designates bolts which pass through the respective brasses and through slots 6, formed in the wedges 3, said bolts being adapted to bind the brasses and members or wedges 3 firmly together, they having nuts, as shown, on their threaded end portions, and secure the journal-box in position on a suitable supporting means—as, for example, on a rod 7.

Means is provided for simultaneously adjusting the wedges, the same consisting of a screw 8, mounted for rotation in lugs 9, secured to the lower brass, and having collars 10 engaging the faces or sides thereof, and the end portions of this screw are both threaded, one having right hand thread and

the other left, and engaged in correspondingly screw-threaded lugs 11, secured to the wedges.

Suitable means for positively locking the wedges as adjusted is provided, there being one locking means for each wedge and consisting of a stem 12, secured to the lower brass and having its outer end portion screw-threaded and projecting through an unthreaded opening in a depending lug 13 of the wedge and having lock-nuts 14 engaging the opposite faces of said lug 13.

In operation the lock-nuts are released, the particular ones obviously depending on the direction of the movement to be imparted to the wedges. Then screw 8 is rotated until the wedges have been adjusted the desired distance. If it is desired to adjust the wedges toward one another, the nuts on bolts 5 must first be loosened.

In the drawing the journal-box is shown secured to a well-known form of connecting-rod used particularly in marine engines, the same having its upper portion bifurcated and adapted to embrace the cross-head of the engine, and in practice another journal-box is secured to the other stem of the bifurcated end of the rod, which journal-boxes receive the bearings or projecting end portions of the cross-head pin.

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

1. The combination of the brasses of the journal-box, wedges arranged between said brasses for movement toward and from the journal-opening thereof, means for adjusting said members, said wedges being provided with lugs, said lugs having unthreaded openings, stems fixed to one of said brasses, the outer end portions of said stems being threaded and projecting through the openings of said lugs, and nuts on the threaded portions of said stems engaging the opposite faces of said lugs for the purpose specified.

2. The combination of the brasses of the journal-box, wedges arranged between said brasses for movement toward and from the journal-opening thereof and provided with lugs having screw-threaded apertures, one of said brasses being provided with lugs each having an unthreaded opening, a member mounted for rotation in said second-named lugs and having shoulders engaging the same so as to be prevented from lengthwise movement, the end portion of said member being

screw - threaded and engaged in the first-named lugs as specified.

3. The combination of the brasses of the journal-box, one of said brasses being formed
5 on each side of the journal-opening therein with a groove, wedges arranged between said brasses for movement toward and from the journal-opening thereof and provided with
10 ribs engaged in said grooves, a screw-rod engaging the sides of the wedges for simultaneously moving the same toward and away

from each other, a rod fixed to each side of the brasses and passing through the wedges and coöperating with the said ribs and grooves to guide the wedges, and locking means on 15 said last-named rods for the wedges.

Signed at Seattle, Washington, this 19th day of March, 1906.

EDWIN S. CLOUGH.

Witnesses:

GEO. R. TENNANT,
ARLITA ADAMS.