

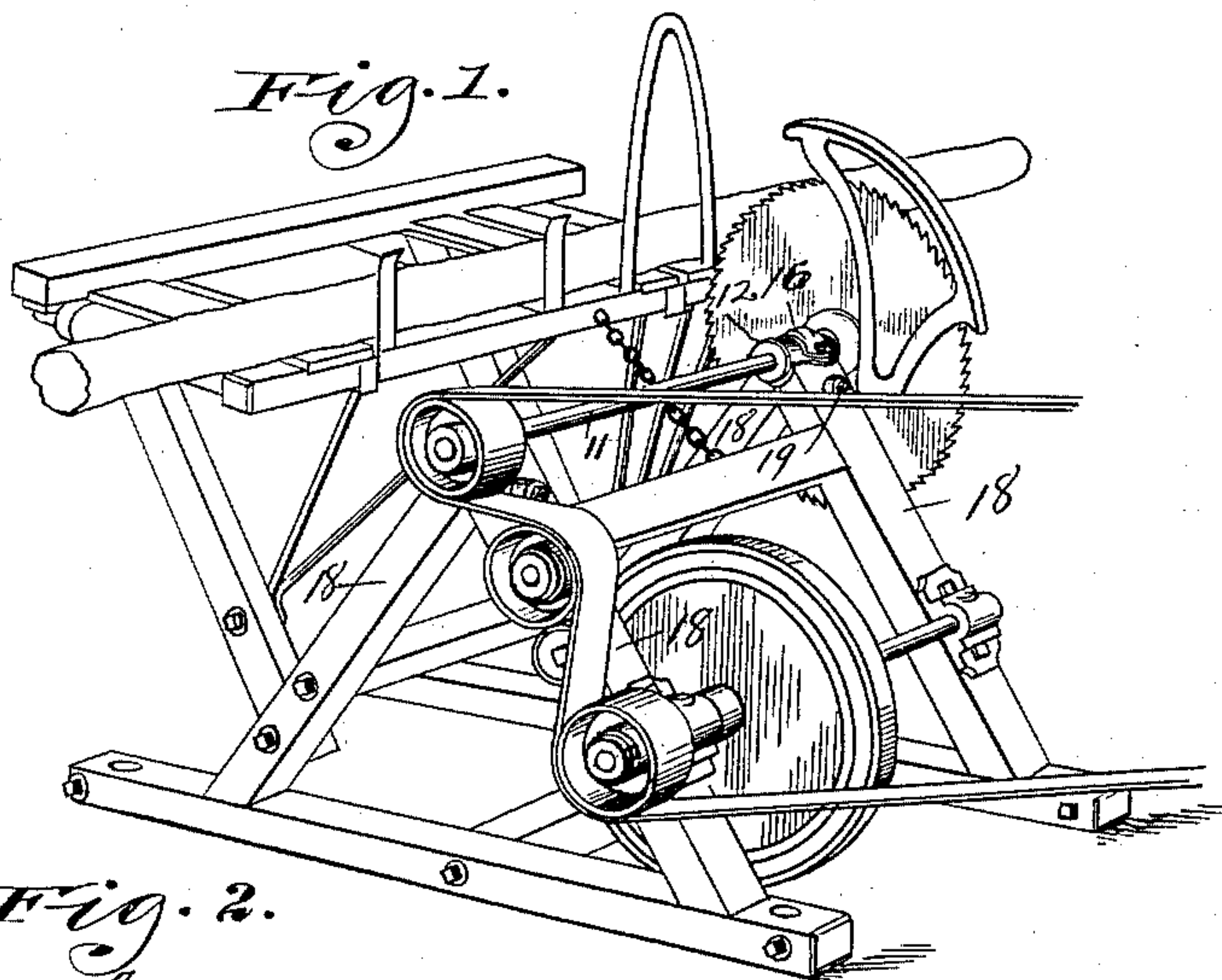
(No Model.)

C. F. SEARCH.  
SHAFT BEARING.

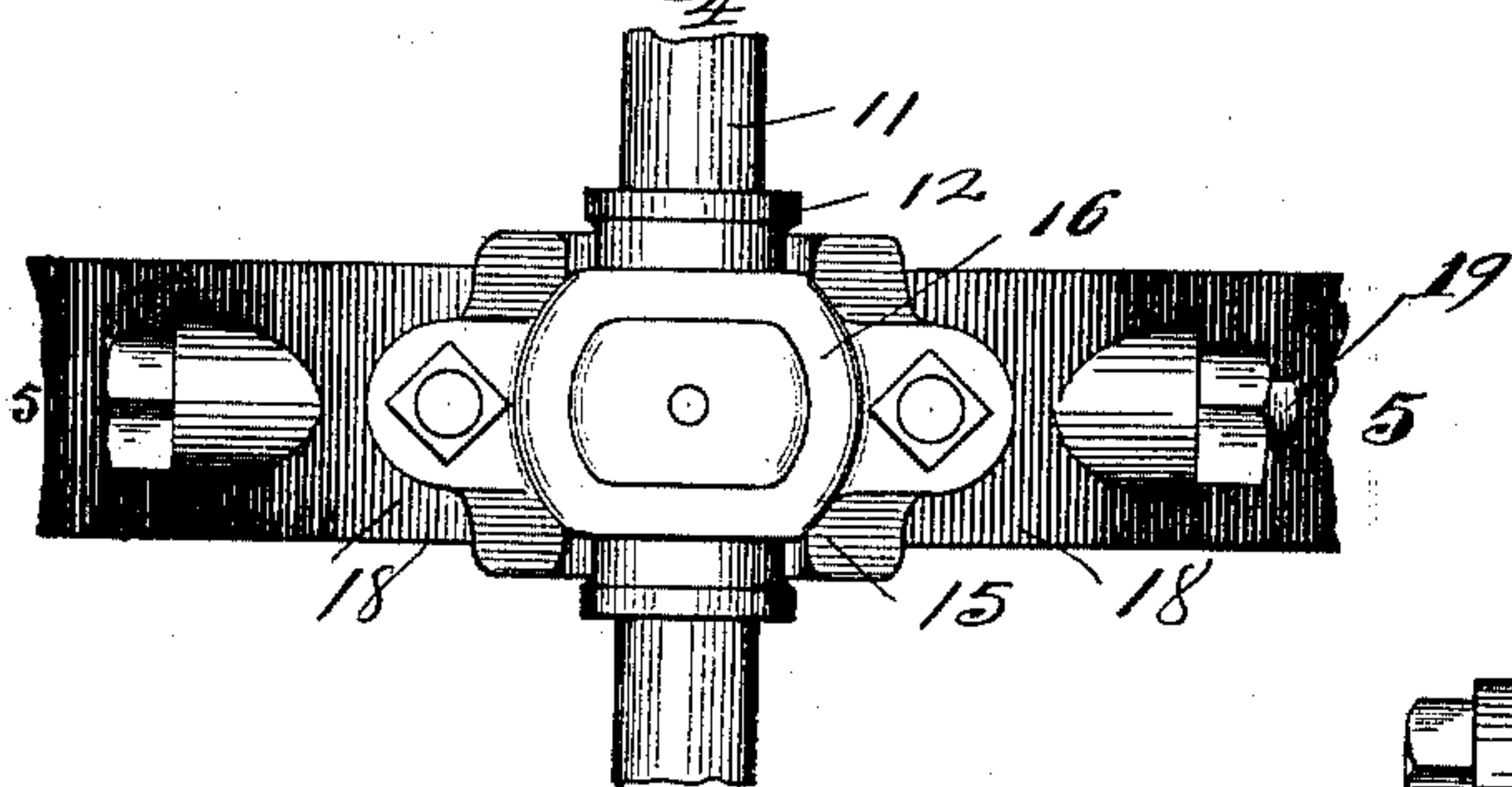
No. 485,890.

Patented Nov. 8, 1892.

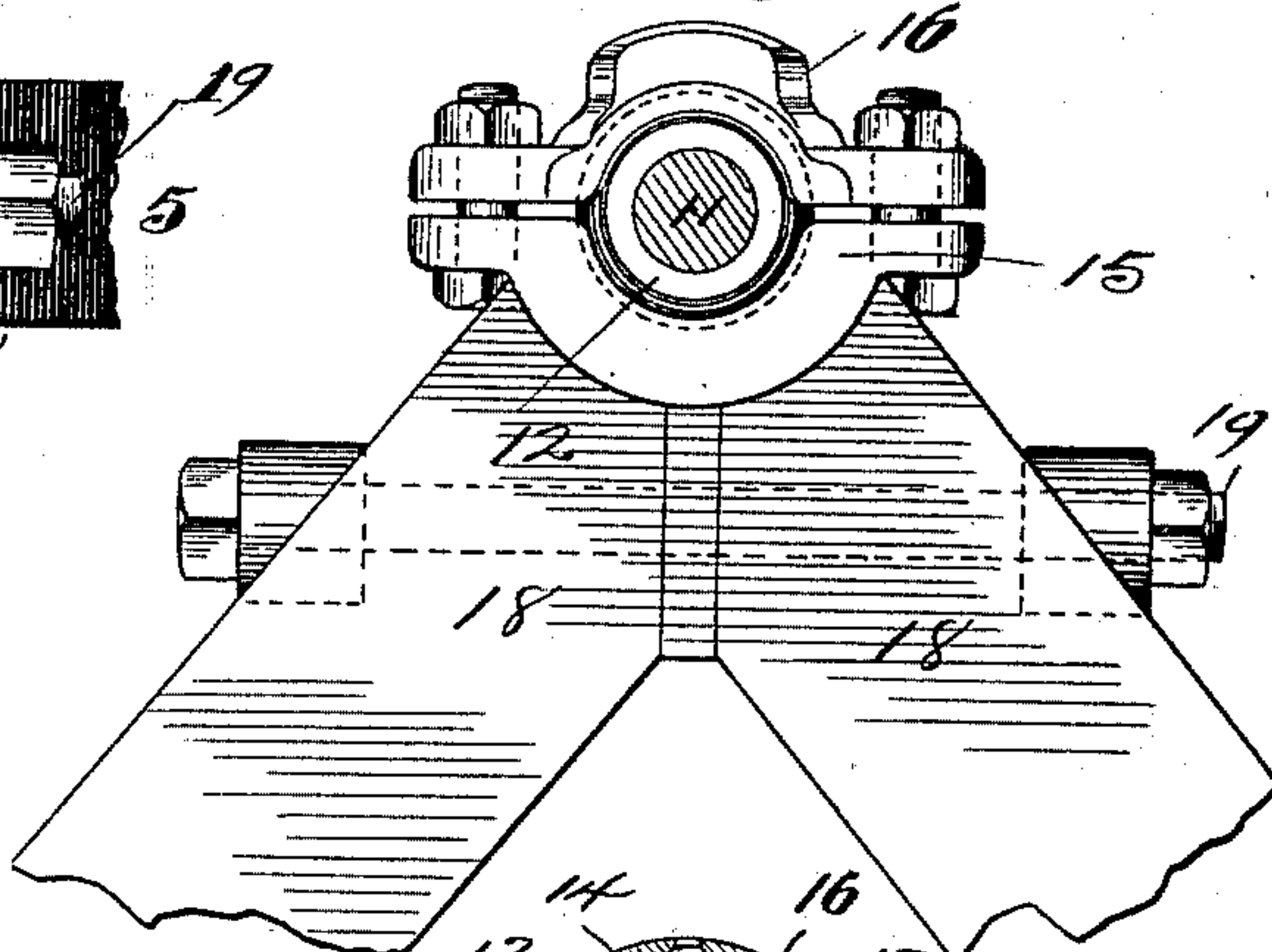
*Fig. 1.*



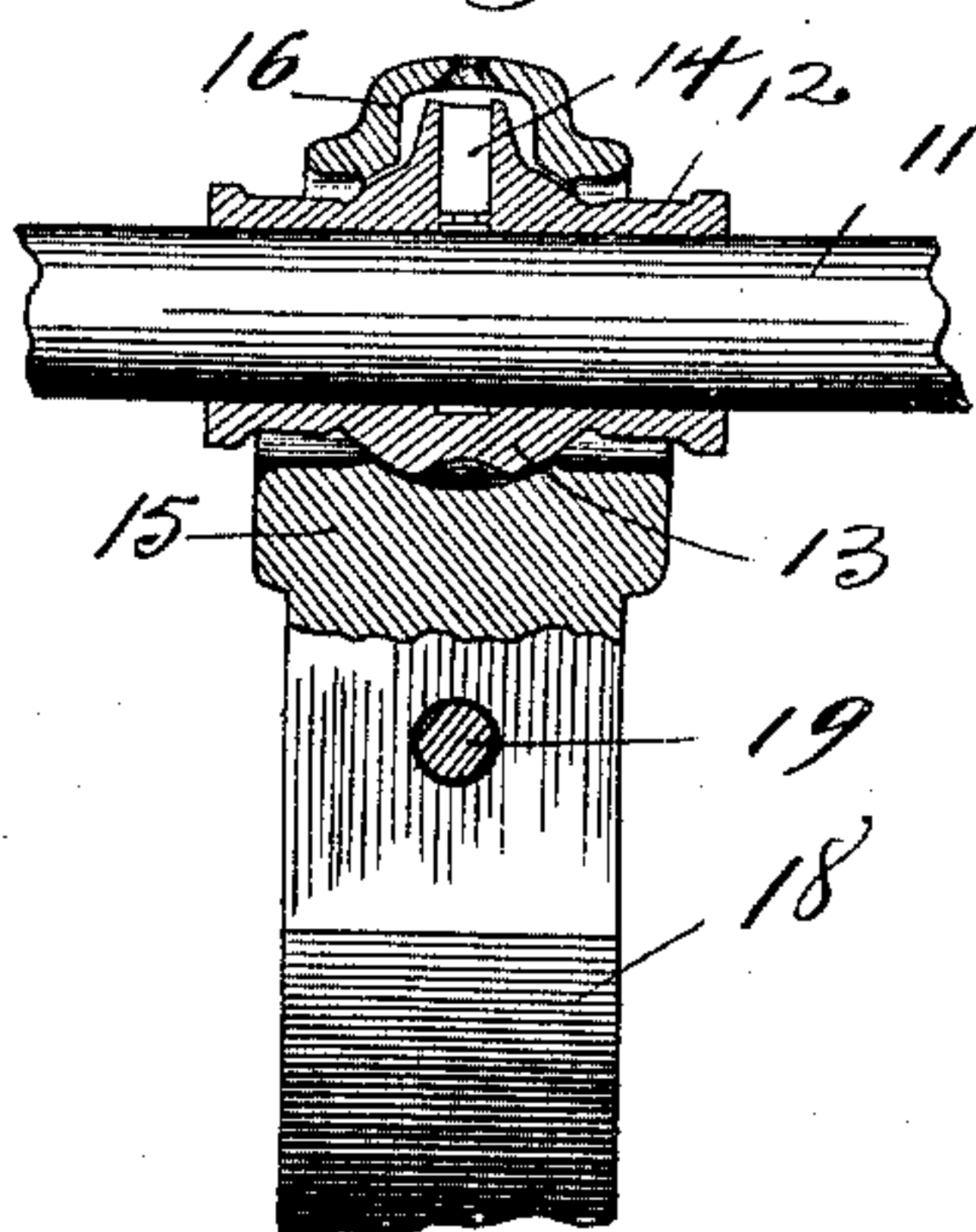
*Fig. 2.*



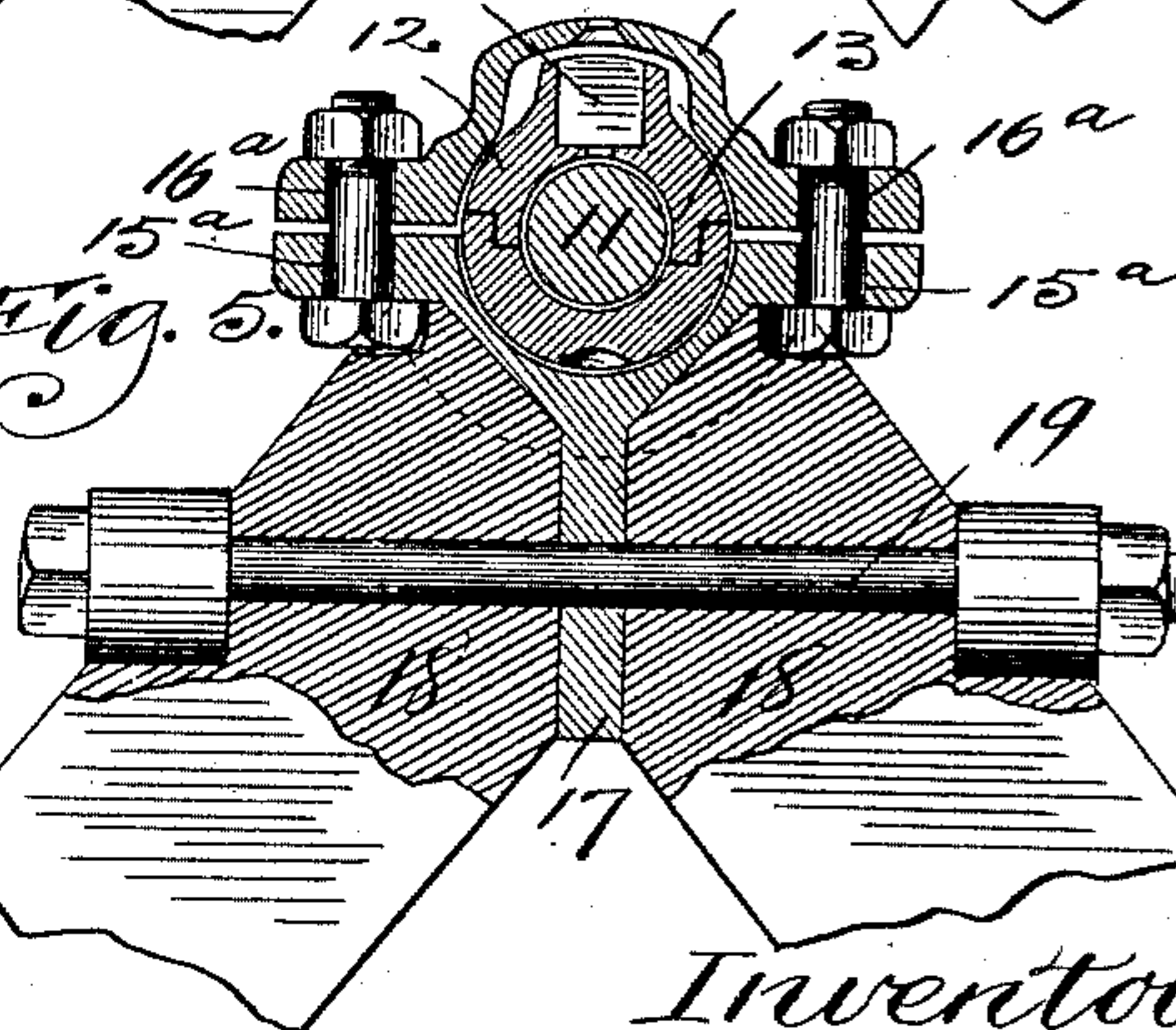
*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



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# UNITED STATES PATENT OFFICE.

CASPER F. SEARCH, OF APPLETON, WISCONSIN, ASSIGNOR TO THE APPLETON MANUFACTURING COMPANY, OF SAME PLACE.

## SHAFT-BEARING.

SPECIFICATION forming part of Letters Patent No. 485,890, dated November 8, 1892.

Application filed February 6, 1892. Serial No. 420,588. (No model.)

*To all whom it may concern:*

Be it known that I, CASPER F. SEARCH, a citizen of the United States, residing at Appleton, Wisconsin, have invented certain new and useful Improvements in Shaft-Bearings, of which the following is a specification.

My invention relates to certain improvements in shaft-bearings for wood-saws. In machines of this character the frame is of wood in order to secure a light and cheap construction, as the machines are frequently moved from place to place. These frame-members are liable to shrink, warp, and sag and throw the shaft out of line with the bearings.

The object of my invention is to provide an improved bearing for machines of this character; and to this end it consists in a special construction of the bearing whereby the same may be readily applied to wood-saws having an A-frame.

In the accompanying drawings, Figure 1 is a perspective view of a wood-saw having an A-frame with my improved shaft-bearing applied thereto. Fig. 2 is a plan view of one of said bearings, showing the shaft and frame broken away. Fig. 3 is an elevation of the parts shown in Fig. 2. Fig. 4 is a section on the line 4 4 of Fig. 2, and Fig. 5 is a section on the line 5 5 of Fig. 2.

In the drawings, 11 represents the shaft. The bearing comprises a sleeve 12, which may be formed integrally, as shown in Figs. 1 to 5, inclusive, or divided longitudinally, as shown in the latter figure by dotted lines. This sleeve has a globular central portion 13, which forms the ball of the bearing, and it is provided with a large oil-chamber 14 in its upper part. This ball fits into a cup or socket in the lower member 15 of the box. The up-

per member or cap-piece is marked 16. These box members have the bolt-apertures 15<sup>a</sup> 16<sup>a</sup> to adapt them to be bolted together, as shown particularly in Figs. 3 and 5. The cap is provided with an aperture, as clearly shown, to admit oil to the chamber 14 and to adapt the bearing to be applied to the wood-saw, such as shown in Fig. 1. The lower box member has an integral flange or web 17, which is transversely apertured and is adapted to be securely clamped between the upper ends of the A-frame members 18 by means of the through-bolts 19. The parts 18 are socketed at their upper ends to receive the lower part of the box, while the web passes down between them and is securely clamped by means of the bolt.

My improvements provide a shaft-bearing which will compensate for racking or sagging of the frame without binding or undue friction upon the shaft. The box can be rigidly secured to the frame and thorough lubrication is provided for.

I claim—

The combination, with the A-frame members socketed at their upper ends, of a ball-bearing and a two-part box to receive the bearing, said box having its lower member fitted to the socket and provided with an integral flange or web depending between the upper ends of the A-frame members, and a clamping-bolt passing through apertures in the ends of said members and in said web, whereby to clamp the parts together, substantially as described.

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