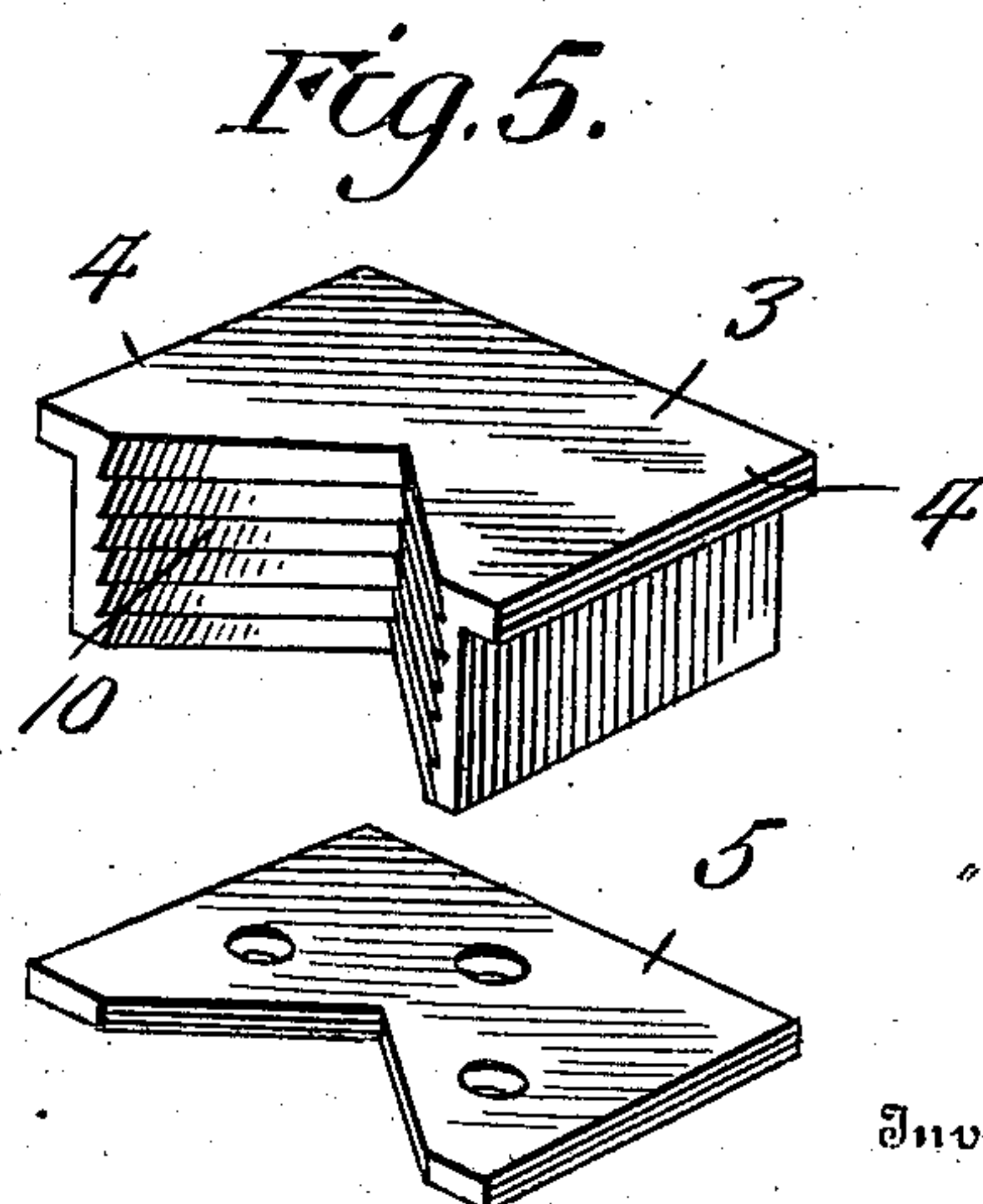
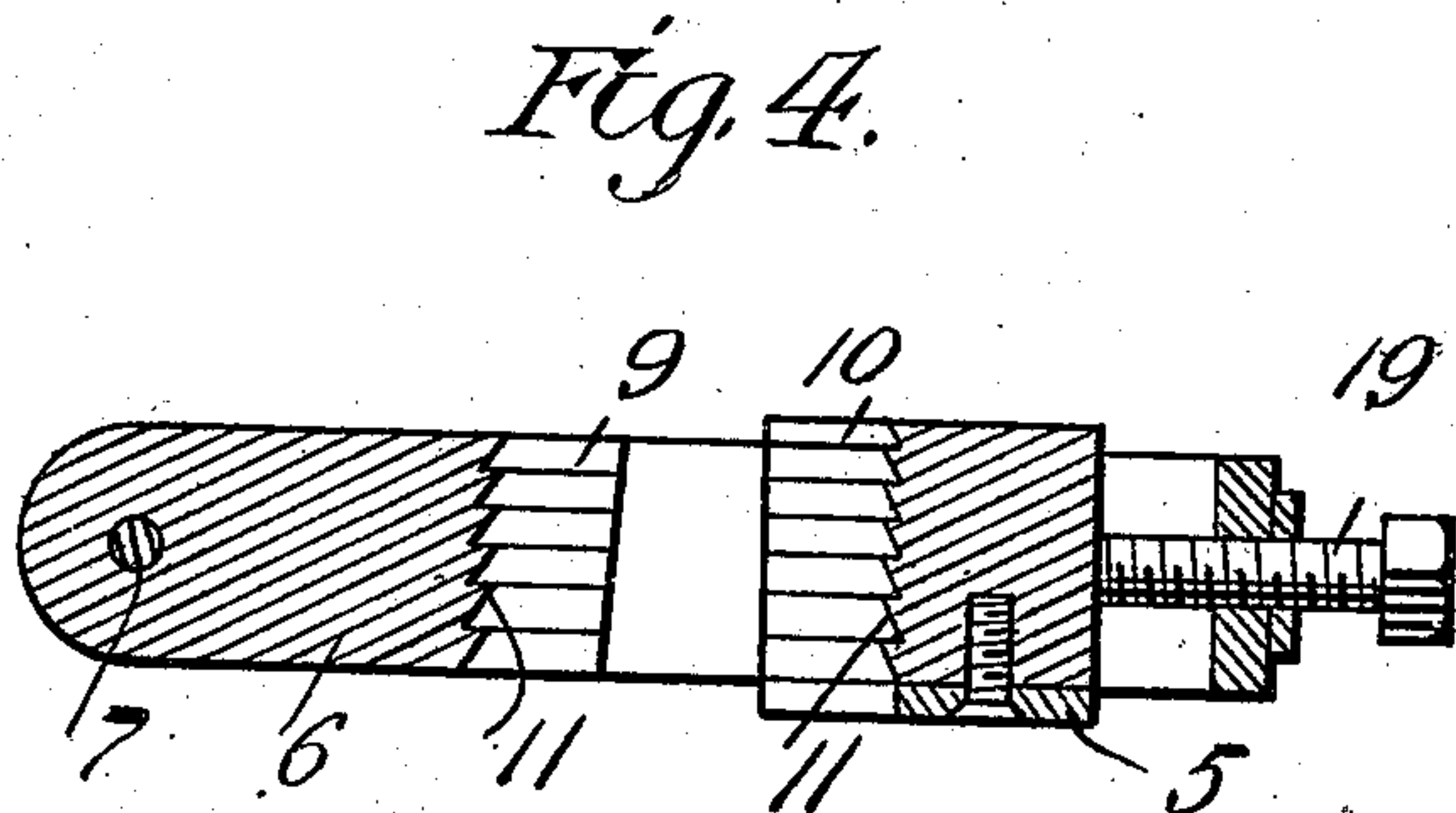
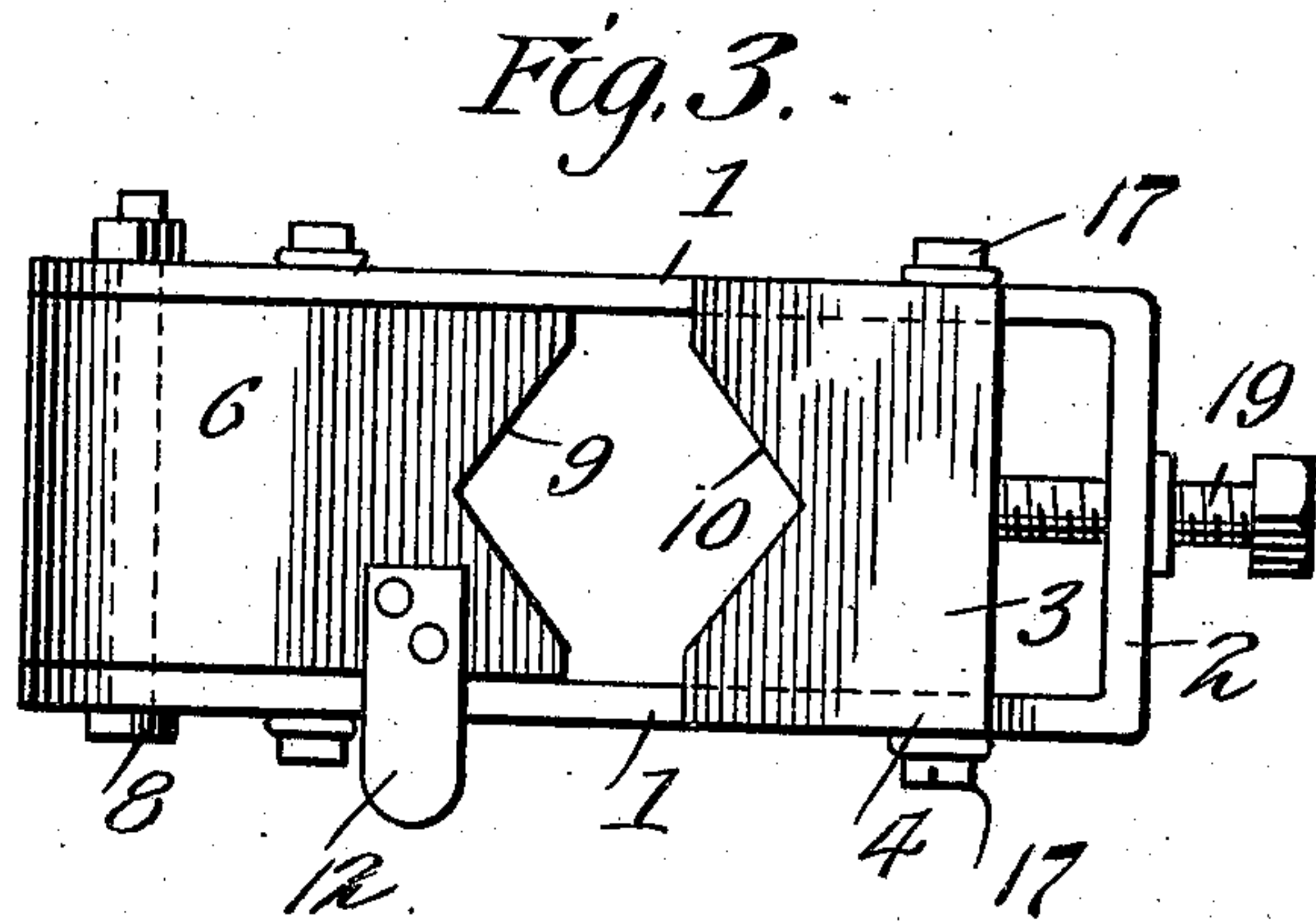
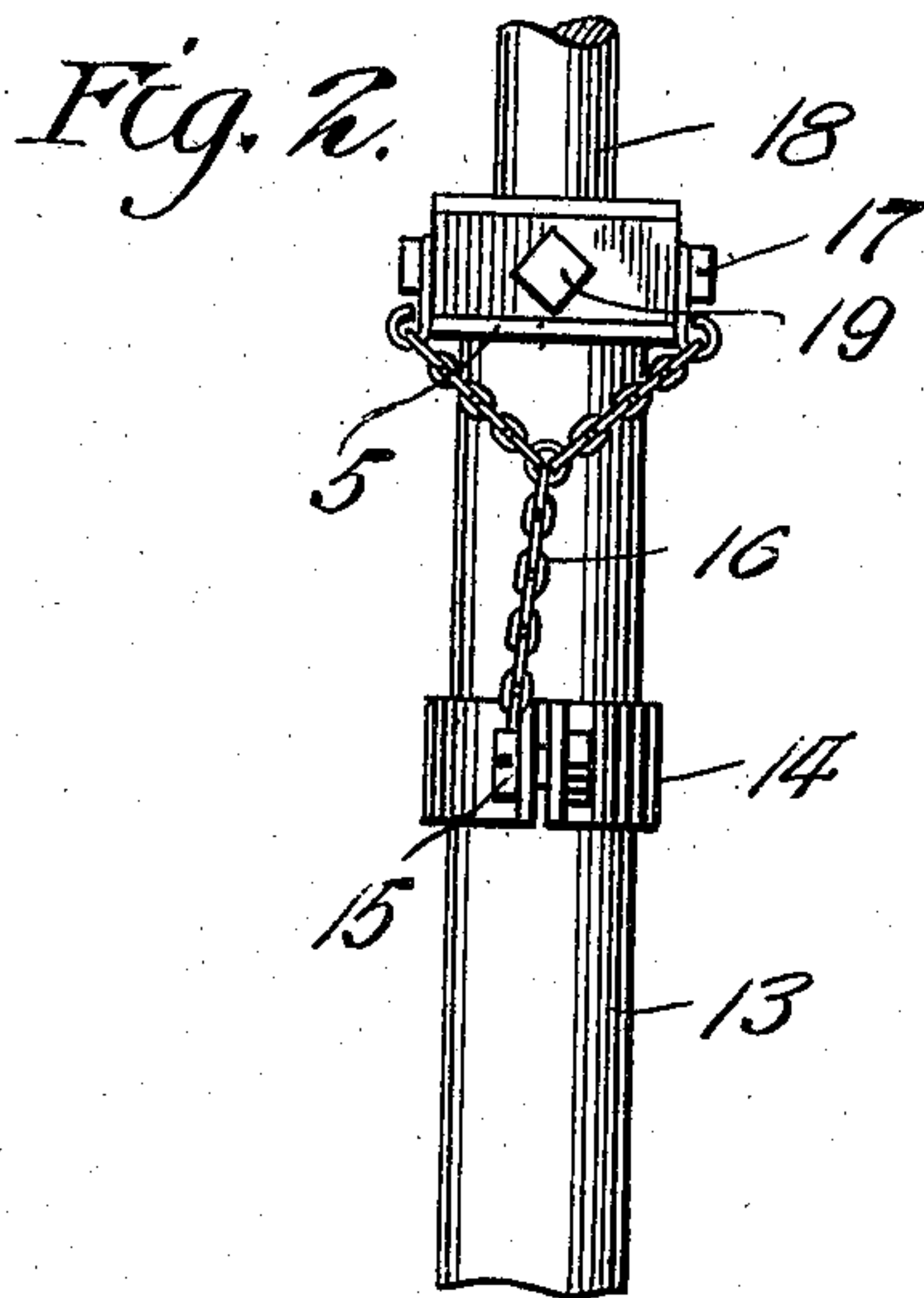
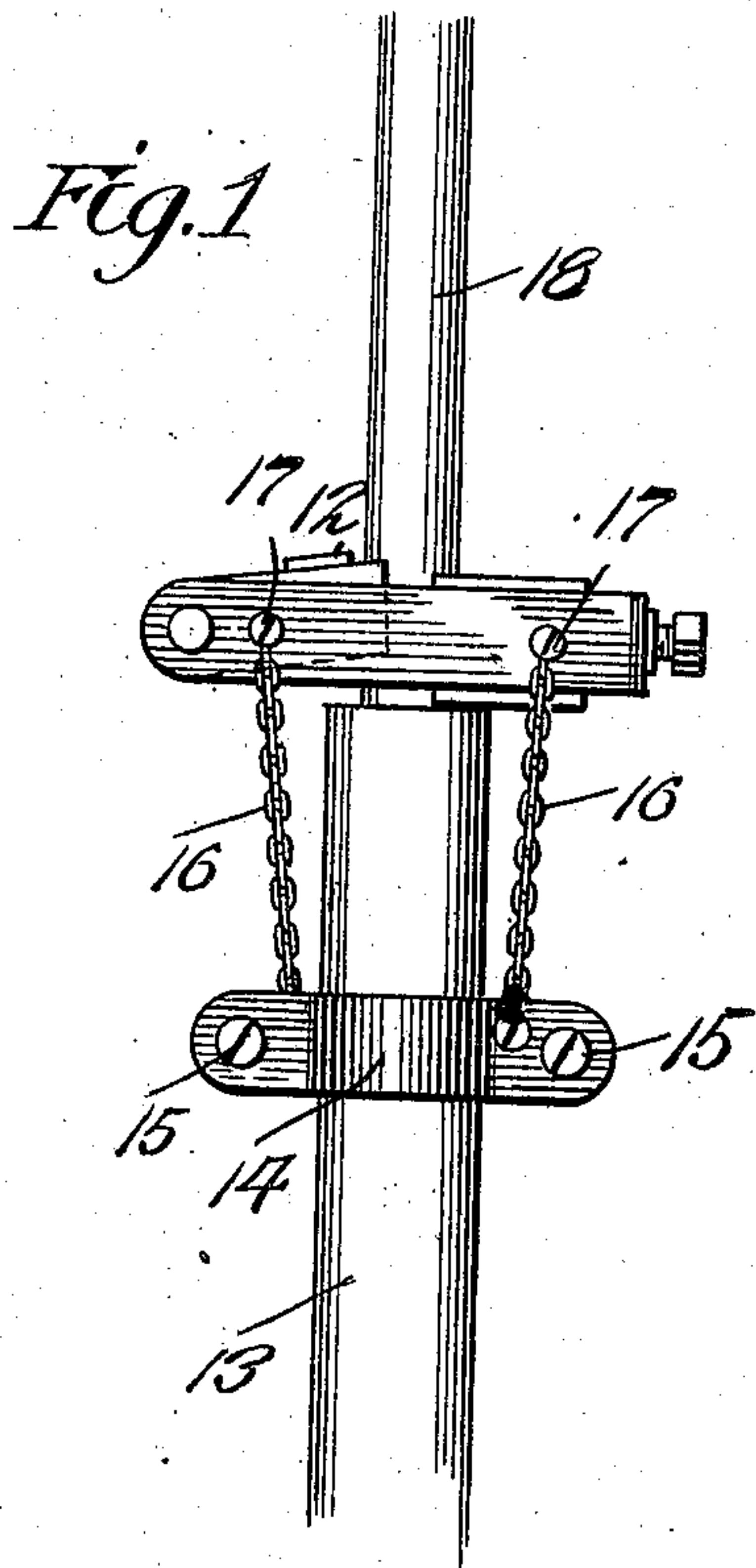


No. 881,659.

PATENTED MAR. 10, 1908.

S. L. BRANNAN.
HOLDER FOR DRILL RODS AND PIPES.

APPLICATION FILED DEC. 20, 1907.



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UNITED STATES PATENT OFFICE.

SAMUEL L. BRANNAN, OF GARDEN CITY, KANSAS.

HOLDER FOR DRILL RODS AND PIPES.

No. 881,659.

Specification of Letters Patent.

Patented March 10, 1908.

Application filed December 20, 1907. Serial No. 407,349.

To all whom it may concern:

Be it known that I, SAMUEL L. BRANNAN, a natural born citizen of the United States, residing at Garden City, in the county of Finney and State of Kansas, have invented new and useful Improvements in Holders for Drill Rods and Pipes, of which the following is a specification.

This invention relates to holders for drill rods and pipes, the object of the invention being to provide a safe and reliable holding device for effectively supporting the drill rods and pipes of driven wells, thus doing away with the dangerous practice of holding such drill rods and pipes by hand or with the aid of tongs which frequently results in injury to the operators.

With the above general object in view, the invention consists in the novel construction combination and arrangement of parts herein fully described, illustrated and claimed.

In the accompanying drawings, Figure 1 is a side elevation of the holder shown applied to a well tube or pipe and drill rod. Fig. 2 is also an elevation thereof taken at right angles to Fig. 1. Fig. 3 is an enlarged plan view of the holder *per se*. Fig. 4 is a vertical longitudinal section through the holder. Fig. 5 is a detail perspective view of the sliding jaw showing the parts thereof separated.

The holder comprises a substantially rectangular open center frame having the side bars 1 and a connecting cross bar 2 at one end thereof. Mounted between the said bars 1 is a sliding jaw 3 provided at one side with overhanging lips or flanges 4 which rest upon the edges of the said bars 1, while at the opposite side of the jaw 3 there is arranged a detachable guide plate 5 which projects beyond the sides of the jaw 3 so as to form over projecting lips or flanges which bear against the opposite edges of the side bars 1 of the holder, thus preventing the sliding jaw from becoming detached from the frame of the holder.

Opposite the sliding jaw 3 there is arranged a pivoted jaw 6 provided at its heel end with an opening 7 through which is inserted a bolt 8 or its equivalent which forms the pivot of the jaw, said bolt passes also through corresponding holes in the side bars of the holder. The jaws 3 and 6 are pro-

vided in their adjacent faces with V-shaped recesses 9 and 10 and these recesses are toothed or serrated, as shown at 11, the serrations resembling ordinary saw teeth with the points turned upwardly, thereby enabling them to maintain a firm and positive hold on the drill rod or pipe in connection with which the device is used. On its upper side, the jaw 6 is provided with a laterally projecting lifter 12 which extends over the adjacent side bar of the holder and also performs the function of a stop for limiting the downward swinging movement of the pivoted jaw by coming in contact with the frame of the holder.

By reference to Figs. 1 and 2, it will be seen that the holder herein before described is adapted to be secured or anchored to a well tube or pipe, shown at 13, by means of a clamp 14 embodying oppositely arranged sections which embrace the pipe from opposite sides, as shown in said figures, and which are secured together by screws, bolts, or their equivalents, 15. From the clamp 14, flexible stays 16 extend upward to the holder to which they are connected at opposite points 17. In this way, the holder is fastened securely on top of the well tube or pipe 13 so that the jaws 3 and 6 thereof may engage the drill rod or tool illustrated at 18.

The sliding jaw 3 is adjusted inwardly and outwardly and securely held at any desired point of adjustment by means of a screw which is threaded through the cross bar 2 of the holder, as clearly illustrated in Figs. 3 and 4. After securing the holder on the top of the pipe, as shown in Figs. 1 and 2, in order to raise the drill rod 18, the pivoted jaw 6 is tilted upward by means of the combined stop and lifter 12 whereupon the drill rod may be lifted. When released the drill rod will be caught and held by the pivoted jaw 6 which swings downward and firmly grips the drill rod between itself and the sliding adjustable jaw 3.

Having described the invention, what I claim as new is:—

1. A holder for drill rods and the like comprising a frame, a sliding jaw adjustable therein, a pivoted jaw carried by said frame, means for limiting the movement of the pivoted jaw relatively to the supporting frame, and means for anchoring said holder

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relatively to the well tube or pipe, substantially as described.

2. A holder for drill rods, pipes and the like embodying a holder frame, a pivoted and
5 swinging jaw mounted therein, a sliding jaw adjustable toward and away from the working face of the pivoted jaw, a clamp, and one or more flexible connections between the

clamp and said holder, substantially as described.

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

SAMUEL L. BRANNAN.

Witnesses:

A. J. HELGER,

R. J. ACKLEY.