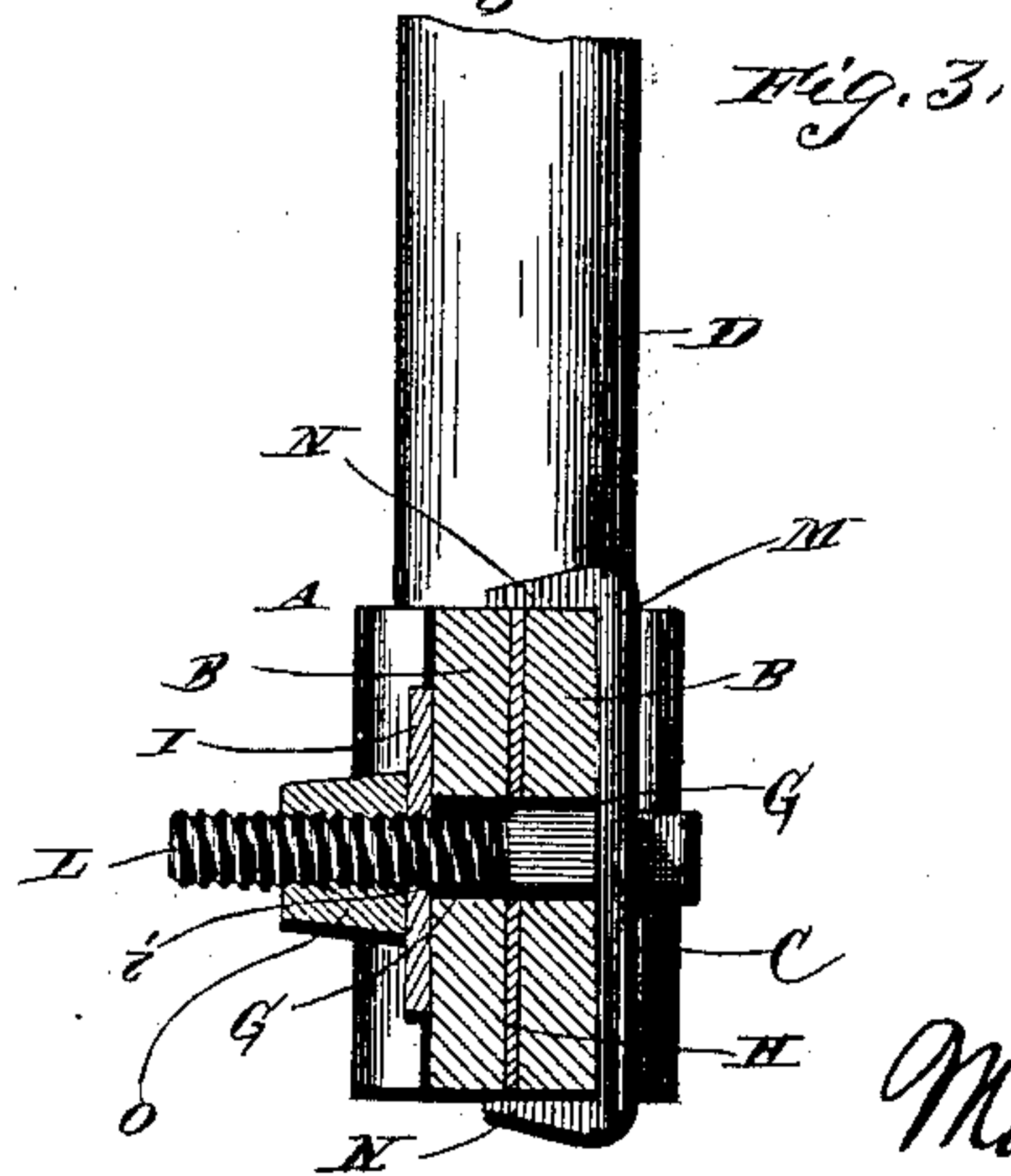
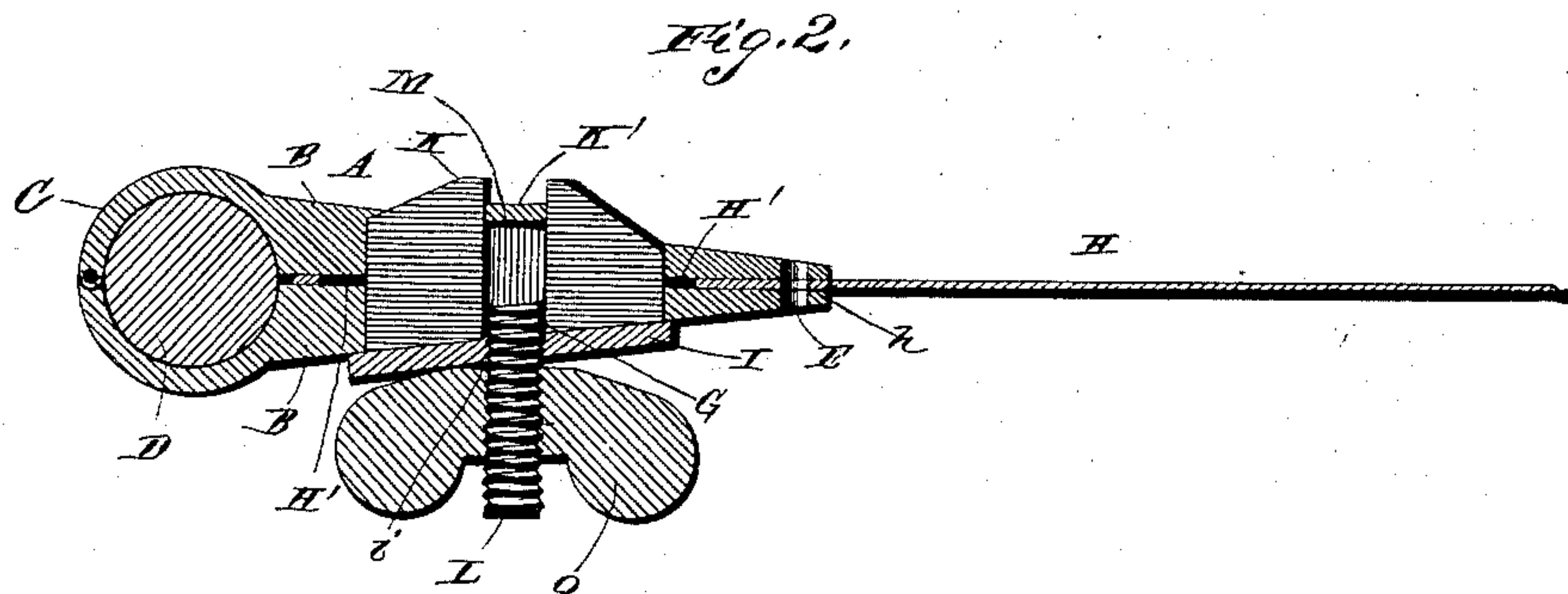
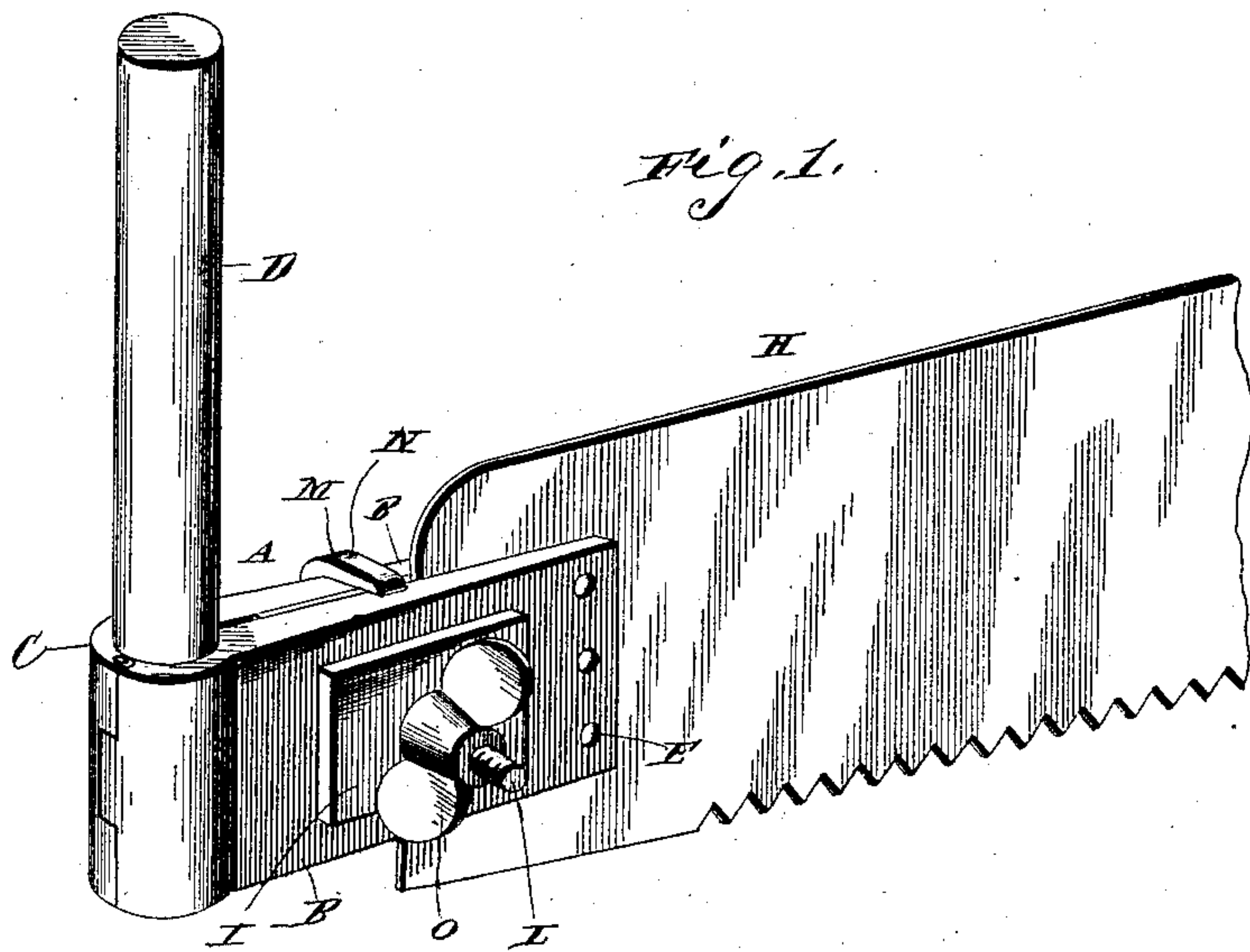


(No Model.)

M. BENNETT.  
HANDLE FOR CROSSCUT SAWS.

No. 375,916.

Patented Jan. 3, 1888.



Witnesses

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# UNITED STATES PATENT OFFICE.

MARTIN BENNETT, OF EUREKA, CALIFORNIA.

## HANDLE FOR CROSSCUT-SAWS.

SPECIFICATION forming part of Letters Patent No. 375,916, dated January 3, 1888.

Application filed September 8, 1887. Serial No. 249,130. (No model.)

*To all whom it may concern:*

Be it known that I, MARTIN BENNETT, a citizen of the United States, residing at Eureka, in the county of Humboldt and State of California, have invented new and useful Improvements in Handles for Crosscut-Saws, of which the following is a specification.

My invention relates to improvements in handles for crosscut-saws; and it consists in a certain novel construction and arrangement of parts, fully set forth hereinafter, and specifically pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a portion of a saw, showing my improved handle attached thereto. Fig. 2 is a horizontal central sectional view of the same. Fig. 3 is a vertical transverse section taken through the bolt.

Referring by letter to the drawings, A designates the clamping-plate, comprising the leaves B B, which are spread at the outer or rear ends to form the sleeve or socket C, to receive the lower end of the handle D. The leaves B B are hinged together at the outer ends (on the outer side of the sleeve or socket) to enable the front ends of the same to be separated, for a purpose hereinafter mentioned. The leaves B B are also tapered from the rear ends toward the front ends, at which point they are very thin, and at the said front ends the leaves are provided each with a series of perforations, E, which are aligned, respectively, with each other. The leaves B B are further provided with aligned longitudinal slots G G, for a purpose to be specified.

H designates the blade of the saw, which is provided at the end with the longitudinal slot H', longer than the slots in the leaves B, but aligned therewith, and also with a series of perforations, h h, to align with the perforations in the inner end of the leaves B. Rivets are adapted to be passed through the aligned perforations.

I designates a washer-plate adapted to bear against the outside of one of the leaves B, and it is provided on the inner side with the lugs K K, having an opening or space, K', therebetween, the said lugs being tapered or beveled on the outer sides and adapted to project through the aligned slots in the leaves B and the saw. The washer-plate I is provided with

a central opening, i, aligned with the opening between the lugs K K on the rear side.

L designates a bolt adapted to pass through the opening K' between the lugs K and the opening i in the center of the plate I, and it is provided on one end with the cross head or arm M, adapted to slide between the lugs K and bear against the outside of the leaf B on the opposite side from the washer-plate I. The said cross-head M is provided on each end with an inturned flange, N, adapted to pass up along the sides of the clamping-plate A and prevent the edges of the saw-blade from projecting beyond the edges of the clamping-plate. A wing or thumb nut, O, is screwed on the threaded end of the bolt L and adapted to bear on the washer-plate I, and when the former is screwed down tight the cross-head will be drawn tight against the opposite side of the clamping-plate and draw the hinged leaves of the same firmly together to clamp against the opposite sides of the saw-blade. It will now be seen that when the saw-blade is secured between the hinged clamping-leaves and pins or rivets passed through the aligned openings in the blade H and the leaves B B the former will be very firmly secured to the handle, and the said securement may be accomplished in a very short time. When the clamp is to be applied to a saw, the leaves B B are separated, the handle D placed in the socket, and the end of the saw placed properly between the leaves. The rivets or pins are secured in the aligned perforations, the washer-plate placed in position, with the lugs on the rear side thereof passed through the slot, the bolt passed through the opening in the washer-plate, and the wing-nut screwed on the threaded end thereof.

The device is very simple and will be found very strong and effective. The object in providing the slot in the saw longer than the slot in the leaves is to enable the handle to be applied to any saw. The distance of the perforations from the slot may vary in different saws, and therefore, if the latter is made longer than necessary, the handle may be readily fitted to any saw.

Having thus described my invention, I claim—

1. The combination, with the saw-blade hav-



ing the perforations *h h* and the slot *H'* therein, of the clamp *A*, comprising the leaves *B B*, having the socket *C* in the outer end, the perforations *E* in the inner end to align with the  
 5 perforations *h h*, and the slots *G G*, to align with the slot in the saw-blade, the plate *I*, having the lugs *K K* on the rear side to pass through the aligned slots, and the bolt *L*, having the cross-head to operate between the lugs  
 10 *K* and the wing-nut to screw on the threaded end thereof and draw the leaves *B B* together to clamp the saw-blade, substantially as and for the purpose specified.

2. The combination, with a saw blade having the slot *H'* therein, of the clamp *A*, comprising the leaves *B B*, hinged together and provided with the aligned slots *G G* to align with the slot *H'*, the handle *D*, secured to the outer end of the leaves, washer-plate *I*, bearing  
 20 against the outer side of one of the leaves and having the lugs *K K* on the rear side, which have an opening between them to align with a central opening in the plate *I*, the bolt *L*, passing through the washer-plate and the  
 25 opening between the lugs *K*, and having a cross-head, *M*, on the end to pass between the lugs and bear against the side of the clamp *A*, and the wing-nut *O* on the threaded end of the bolt to draw the leaves *B B* together, substantially as and for the purpose hereinbefore  
 30 specified.

3. The combination, with a saw-blade having the slot *H'* therein, of the clamping-plate *A*, comprising the leaves *B B*, to pass on opposite sides of the end of the said blade, and having the longitudinal slots *G G* therein to align  
 35 with the slot *H'*, the plate *I*, to bear against the outer side of one of the leaves, and having a central opening, *i*, the lugs *K K* on the rear side of the plate to pass through the aligned  
 40 slots, and having an opening, *K'*, between them, the bolt *L*, to pass through the openings *H'* and *i*, and having the cross head on one end to pass between the lugs *K* and bear  
 45 against the clamping-plate, the said cross-head being provided at the ends with the in-turned flanges *N*, to bear against opposite edges of the clamp, the wing-nut *O*, to screw on the threaded end of the bolt, and the handle *D*,  
 50 to be secured to the outer end of the clamping-plate, substantially as and for the purpose specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

MARTIN BENNETT.

Witnesses:

L. L. TROWBRIDGE,  
 J. S. MURRAY.