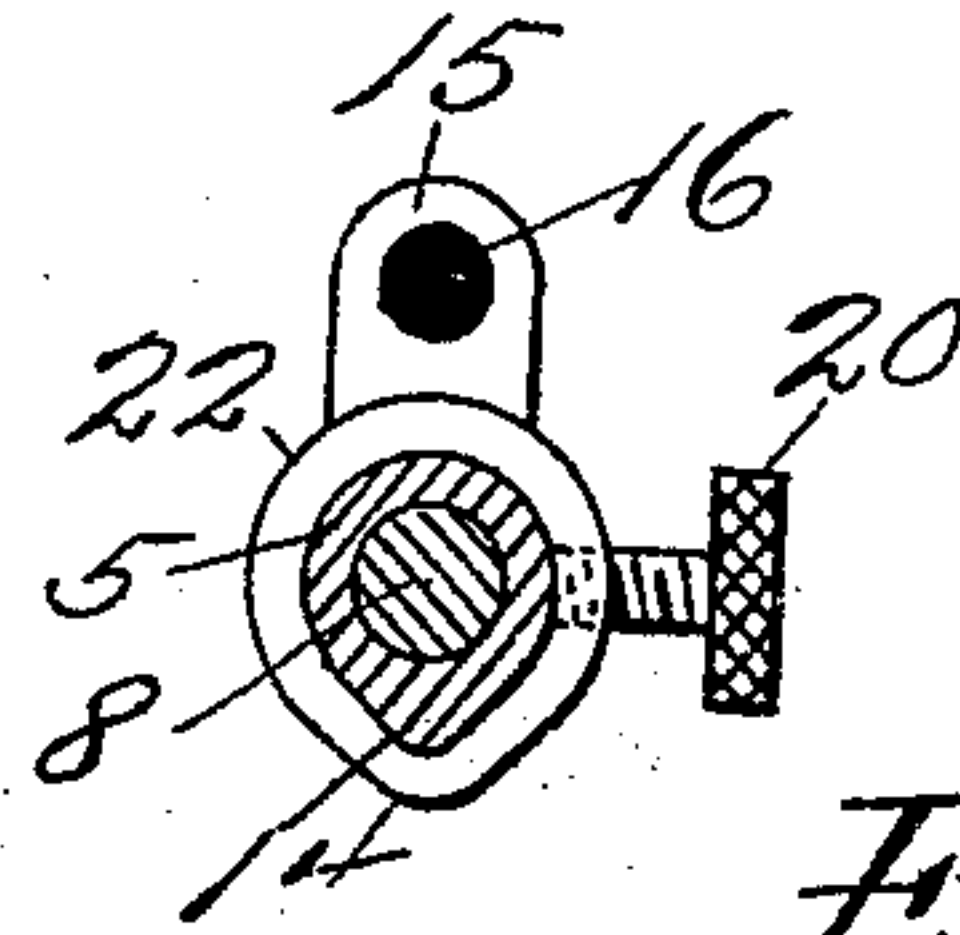
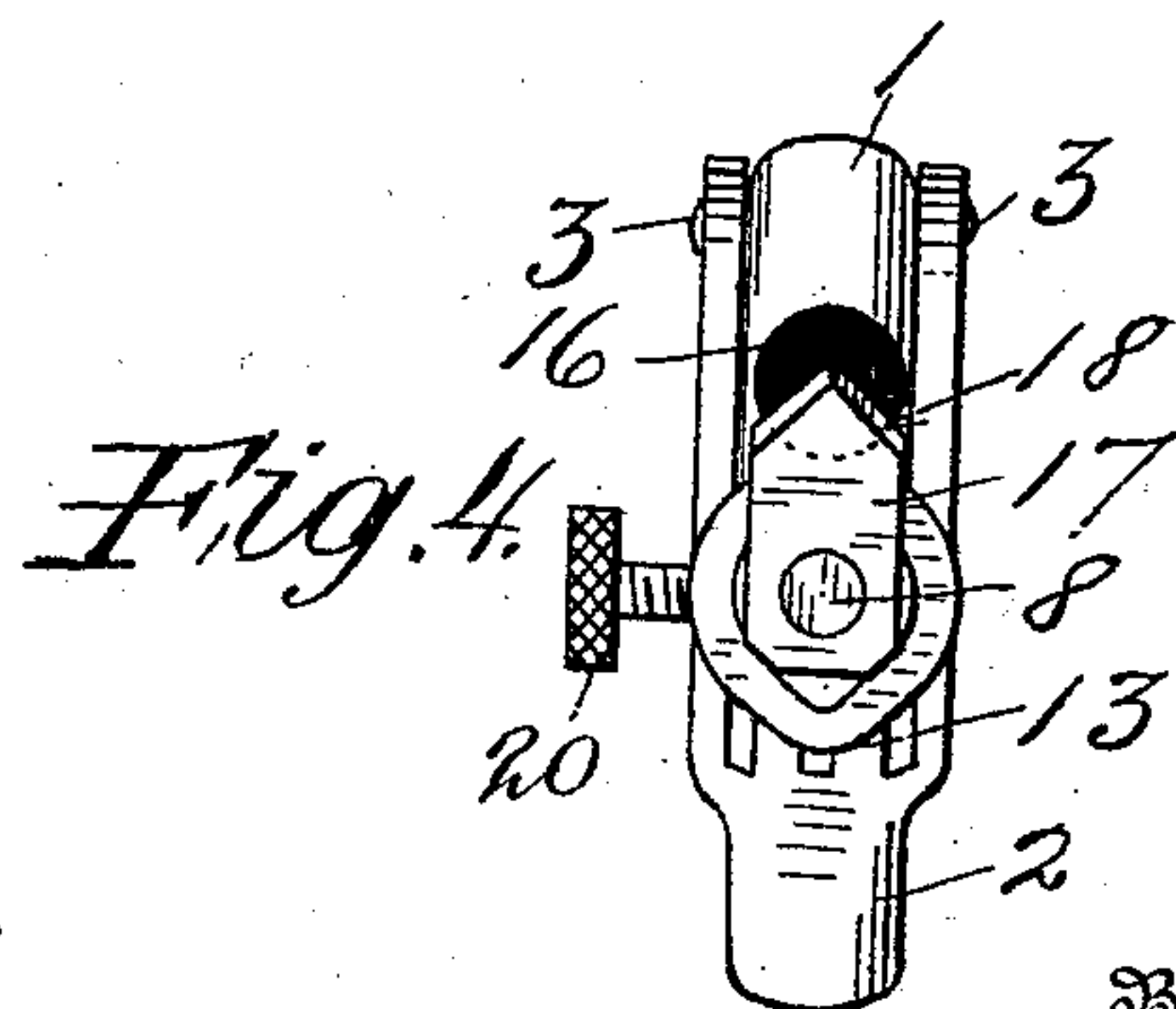
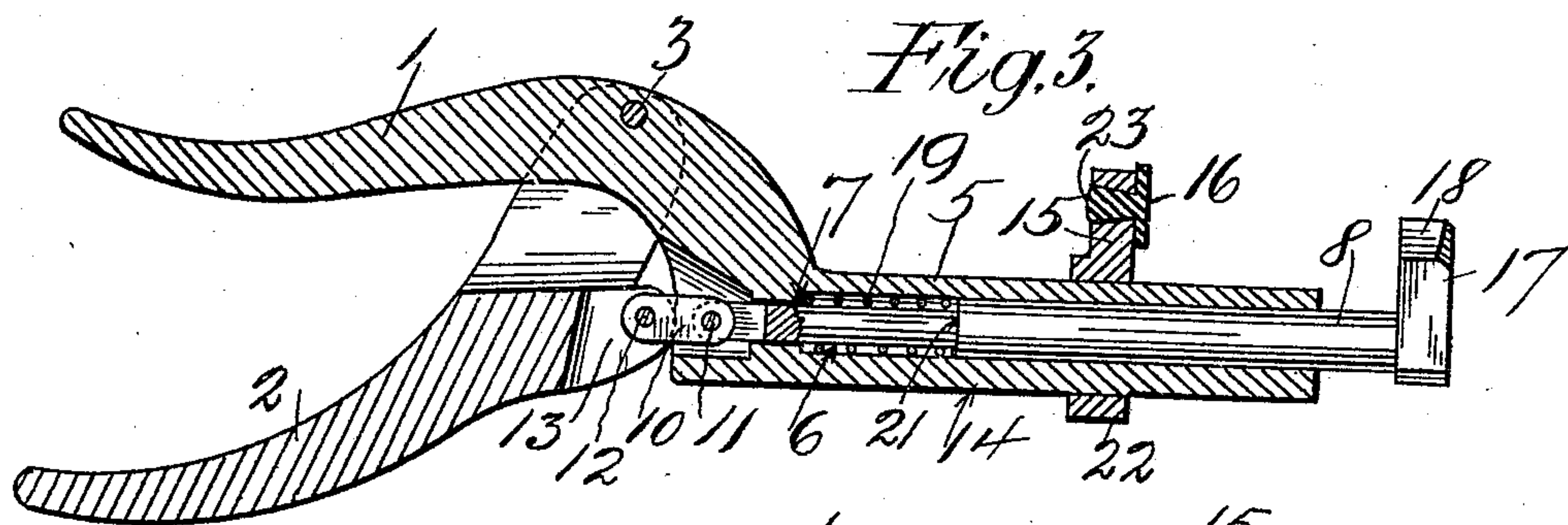
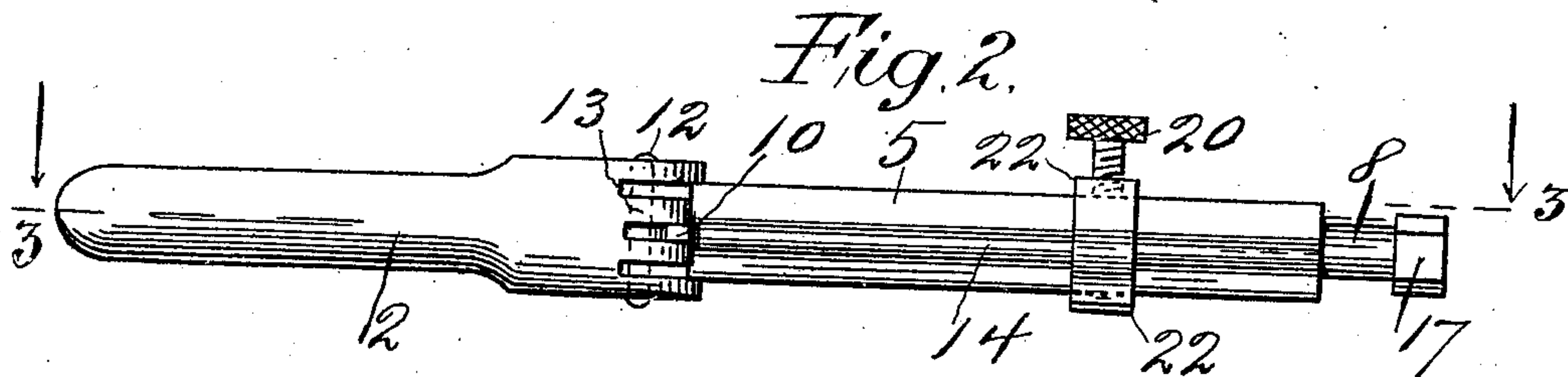
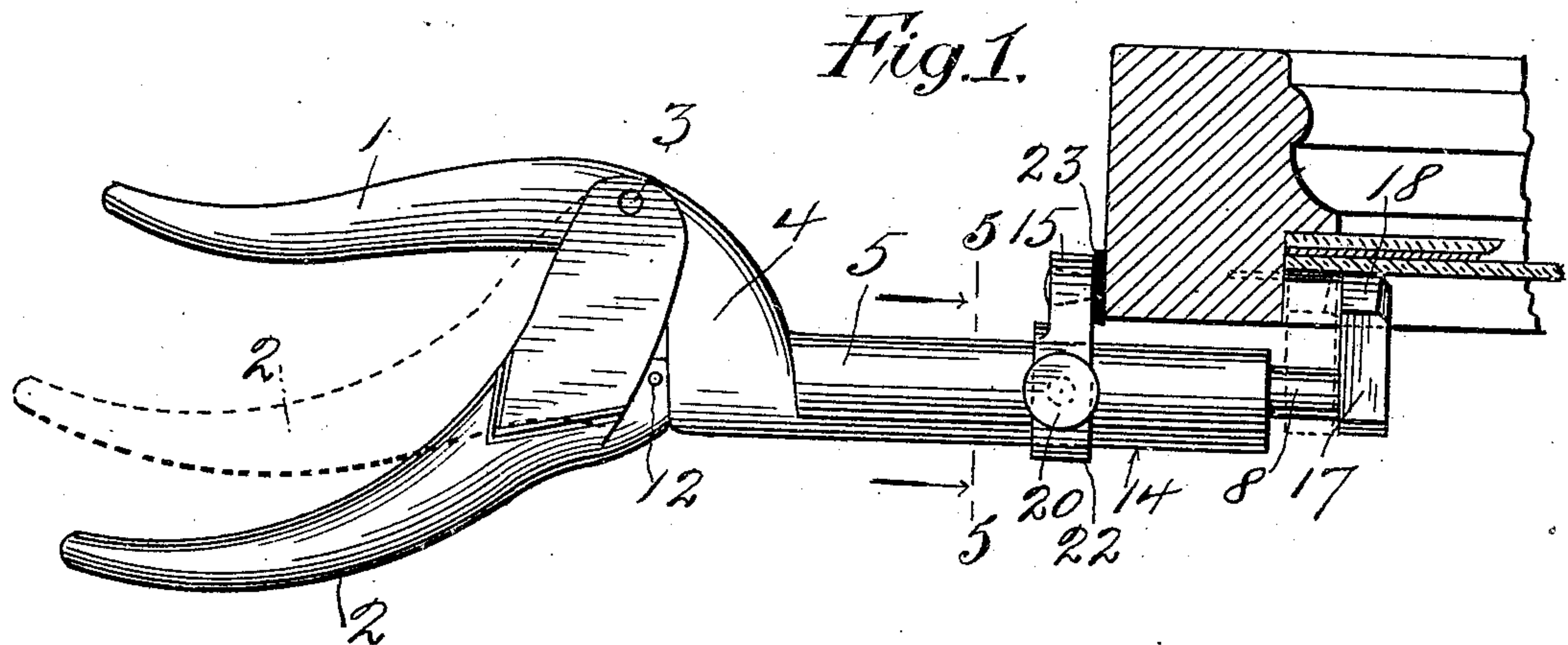


R. B. MIMMACK.
 TOOL FOR NAILING PICTURES IN FRAMES.
 APPLICATION FILED AUG. 25, 1909.

956,128.

Patented Apr. 26, 1910.



Witnesses:
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UNITED STATES PATENT OFFICE.

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TOOL FOR NAILING PICTURES IN FRAMES.

956,128.

Specification of Letters Patent.

Patented Apr. 26, 1910.

Application filed August 25, 1909. Serial No. 514,504.

To all whom it may concern:

Be it known that I, ROBERT B. MIMMACK, a citizen of the United States, and a resident of the city of Rochester, county of Monroe, and State of New York, have invented certain new and useful Improvements in Tools for Nailing Pictures in Frames, of which the following is a specification.

My invention relates to improvements in a tool which is adapted to force nails into a picture frame to secure the picture in the frame.

The object of the present invention is to provide a simple and efficient tool which will be very handy in use, which may be readily adjusted for nails of different length and frames of different width molding; and which will be inexpensive to make and which will not get out of order. For this purpose I provide a tool with a pair of parallel jaws and a pair of coöperating handles, one of which handles has a pivotal connection and operates a plunger to which one of the parallel jaws is connected so that the jaws are forced toward each other, one of the jaws engaging against the outside of the frame molding and the other against the head of the nail, or such other securing device as is to be driven in the frame; and the device is so arranged that the operating handles will be outside of the frame during use and the jaw which engages the nail will be movable in relation to the handles and the rest of the tool.

In the drawings forming a part of this application, Figure 1 is an elevation of the tool showing its use, Fig. 2 is a plan view of the tool, Fig. 3 is a longitudinal section taken on the line 3—3 of Fig. 2, looking in the direction of the arrows, Fig. 4 is an end view thereof and Fig. 5 is a cross section taken on the line 5—5 of Fig. 1, looking in the direction of the arrows.

The tool consists primarily of a pair of coöperating handles 1 and 2, the latter of which is fulcrumed to the former at the point 3 by a pin; and the handle 1 may be considered in the present case as the stationary handle while the handle 2 may be considered as the movable handle. The handle 1 is continued into a curved portion 4 to which there is connected a barrel 5, and I preferably form these parts 1, 4 and 5 of

a single casting, though they may be otherwise made, and the particular shape may be altered as desired, the one shown being what I consider the most desirable. This barrel forms the working foundation for a plurality of parallel jaws 15 and 17, one of which is stationary, except during the adjustment of the tool for the width of molding and the length of nail, while the other is movable with relation to the first one.

In the barrel 5 there is a movable plunger 8 which has a longitudinal movement therein, in the bore 6 thereof and one end of the plunger is connected by a link 10 with parallel ears 13 of the handle 2, being fulcrumed at 11 to the plunger and at 12 to the ears, so that the plunger may be forced longitudinally in the barrel by means of the movable handle and the arc of movement of the ears will not cause a binding of the plunger in the barrel, by reason of the link connection. The plunger is provided with a shoulder 21, and between this and a shoulder 7 on the interior of the barrel there is a spiral spring 19 which operates to force the plunger outwardly, holding the parts in the position shown in Figs. 1 and 3. The end of the plunger which projects beyond the barrel carries the jaw 17, which may be considered the movable jaw member, and the nose of this is preferably double chamfered at 18 for the purpose which will appear.

The jaw member 15 is adjustable along the barrel by which adjustment is made for moldings of different width and for nails of different length. The barrel 5 is provided with a rib 14 running longitudinally therealong outside thereof and is preferably cast integral therewith and forms the guide for the adjustable jaw member, to keep it in proper parallel relation with the other jaw member. The jaw member 15 is carried upon a ring 22 which engages around the barrel, and is shaped to conform to the rib 14 and is loose enough to be slid along the barrel. This ring is provided with a set screw 20, which is threaded in the same, to one side of the tool and which may be screwed into tight engagement with the exterior of the barrel. The jaw member 15 is provided with a rubber or other bushing 16 which has a neck passing through a hole in the jaw member of increasing diameter,

and this bushing serves to protect the delicate edge of the frame molding against abrasion when the tool is used.

The operation of the tool will be understood from Fig. 1. When the picture has been placed in the frame and the backing inserted to hold and protect the same it is ready for nailing. The nails are usually small wire nails and are to be driven part of their length into the frame straight and close up to the backing, to hold the latter in place and it is difficult to put these nails in place with a hammer without injuring the frame or picture glass and at rapid speed. The tool is first adjusted by placing the jaw 15 at such a distance from the jaw 17 as will correspond with the width of the frame molding and the length of the nail to be driven, by moving it along the barrel 5 to the desired position and screwing the set screw 20 tight against the barrel. The jaw member 15 is then placed against the outside surface of the frame and the jaw 17 against the head of the nail, when the handles are pressed together, which will cause the plunger to be drawn back and the jaw member 17 to be drawn toward the jaw member 15, until the nail is driven sufficiently into the frame. Upon releasing the handles the parts will be caused to resume the position shown in Figs. 1 and 3, by the action of the spring 19. By having the adjusting screw on the side of the tool, if there is a play between the collar 22 and the barrel the collar will pivot from the point of the screw 20 and the pressure of the jaws will cause a binding action which will aid in preventing any movement of the collar on the barrel during the nailing. The rib 14 prevents the collar from turning on the barrel. By chamfering the end 18 of the jaw member 17 the tool may be held at an angle from the vertical position, either to one side or the other, so that the tool will not obstruct the operator's view of the nail as it is driven.

A tool of the present construction has but few parts which are cheaply made, easily assembled and the tool is very effective in use.

Heretofore tools have been made for driving nails for various purposes but I am not aware that an efficient tool for driving the nails in a picture frame has been devised before.

While I have carefully described the preferred form of my invention I do not wish to be limited thereto but I desire to include all constructions which come within the scope of the following claims.

Having described my invention what I claim is;

1. A tool of the class described, comprising cooperating handles, movable with relation to each other, a guide member and a

plunger cooperating therewith, a pair of cooperating jaws, one of which is adapted to be adjustably secured along the guide member and the other of said jaws being movable with the said plunger, the plunger being connected with one of said handles, whereby the plunger may be operated thereby.

2. A tool of the class described, comprising a handle and a longitudinal guide member connected therewith, another handle cooperating with and fulcrumed to the first handle, a jaw member adapted to be adjustably secured along said guide member and a plunger cooperating with said guide member and provided with a jaw member which cooperates with said first jaw member, the said second handle being adapted to operate the plunger to move the second jaw member toward the first one.

3. A tool of the class described, comprising a handle and a longitudinal barrel carried thereby, a pivoted handle cooperating with said first handle, a plunger cooperating with the barrel and carrying a jaw member, a jaw member adapted to be secured to the barrel between said first jaw and the handles, and to cooperate with the first jaw member, a spring in said barrel adapted to force the plunger outwardly to separate the jaw members and a link connecting said pivoted handle and said plunger.

4. A tool of the class described comprising a plurality of cooperating handles and a rounded barrel provided with a projecting rib, a plunger cooperating with the barrel and provided with a jaw member, another jaw member having a ring by which it is adjustably secured to the barrel which jaw member has a groove engaged and guided by the barrel rib, said jaw members being adapted to cooperate, the said plunger being connected to a handle by which it is operated.

5. A tool of the class described, comprising cooperating handles and a longitudinal rounded guide member, a plunger guided by the guide member, operated by a handle and provided with a jaw member, and another jaw member to cooperate with said first jaw member, said second jaw member having a ring by which it is adjustably secured to the guide member engaging about the guide member and having a set screw engaging the guide member near the middle of the side thereof.

6. A tool of the class described comprising a handle provided with a longitudinally extending barrel, another handle fulcrumed to the first handle and cooperating therewith, ears on said second handle, a plunger movable in said barrel and carrying a jaw member on its outer end, another jaw member having a bushing on its face, said jaw member being adjustably secured to the

said barrel by a ring provided with a set screw, a link fulcrumed to the inner end of the plunger and between the ears of said movable handle and a spring in said barrel
5 adapted to force the plunger outwardly.

7. A tool of the class described comprising a handle provided with a longitudinally extending barrel, another handle fulcrumed to the first handle and coöperating there-
10 with, ears on said second handle, a plunger movable in said barrel and carrying a jaw member on its outer end, said jaw member having a chamfered nose, another jaw member having a bushing on its face, said

jaw member being adjustably secured to the
said barrel by a ring provided with a set
screw, a link fulcrumed to the inner end of
the plunger and between the ears of said
movable handle and a spring in said barrel
adapted to force the plunger outwardly. 15

Signed at the city of Rochester, in the
county of Monroe, and State of New York,
this 20 day of August, 1909. 20

ROBERT B. MIMMACK.

Witnesses:

W. H. WHITING,
OLIVE WHITING.