

J. CARLIN.
SAW JOINTING AND SAW SWAGING IMPLEMENT.
APPLICATION FILED JAN. 10, 1908.

898,964.

Patented Sept. 15, 1908.

Fig. 1.

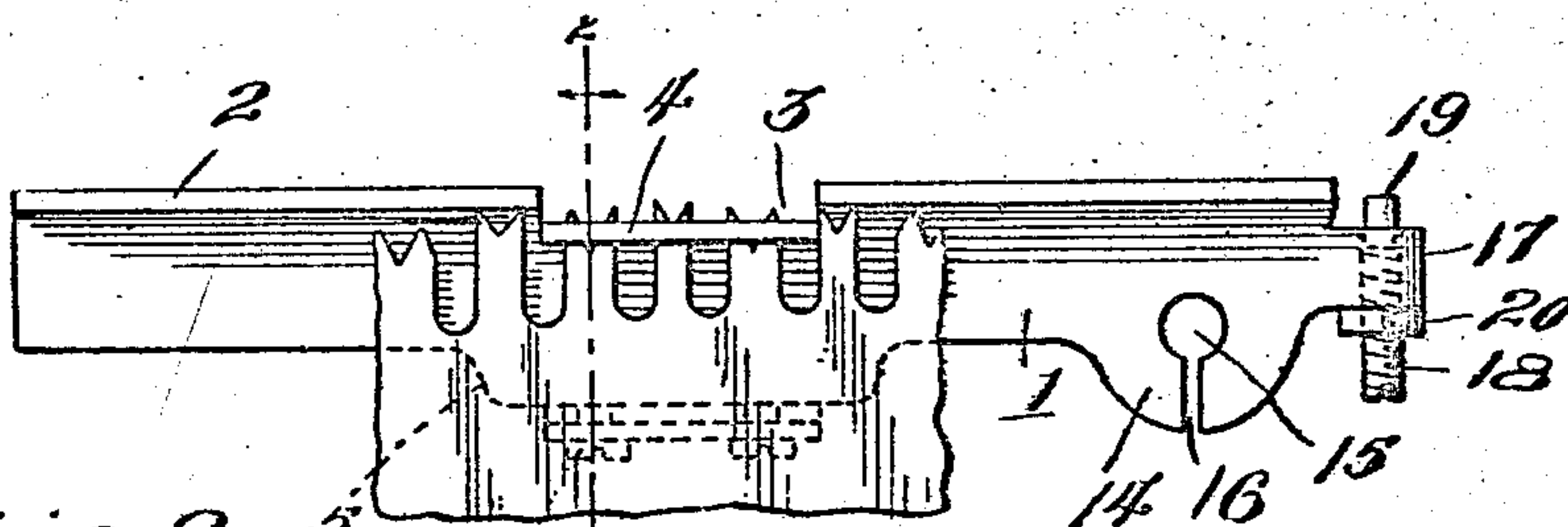


Fig. 2.

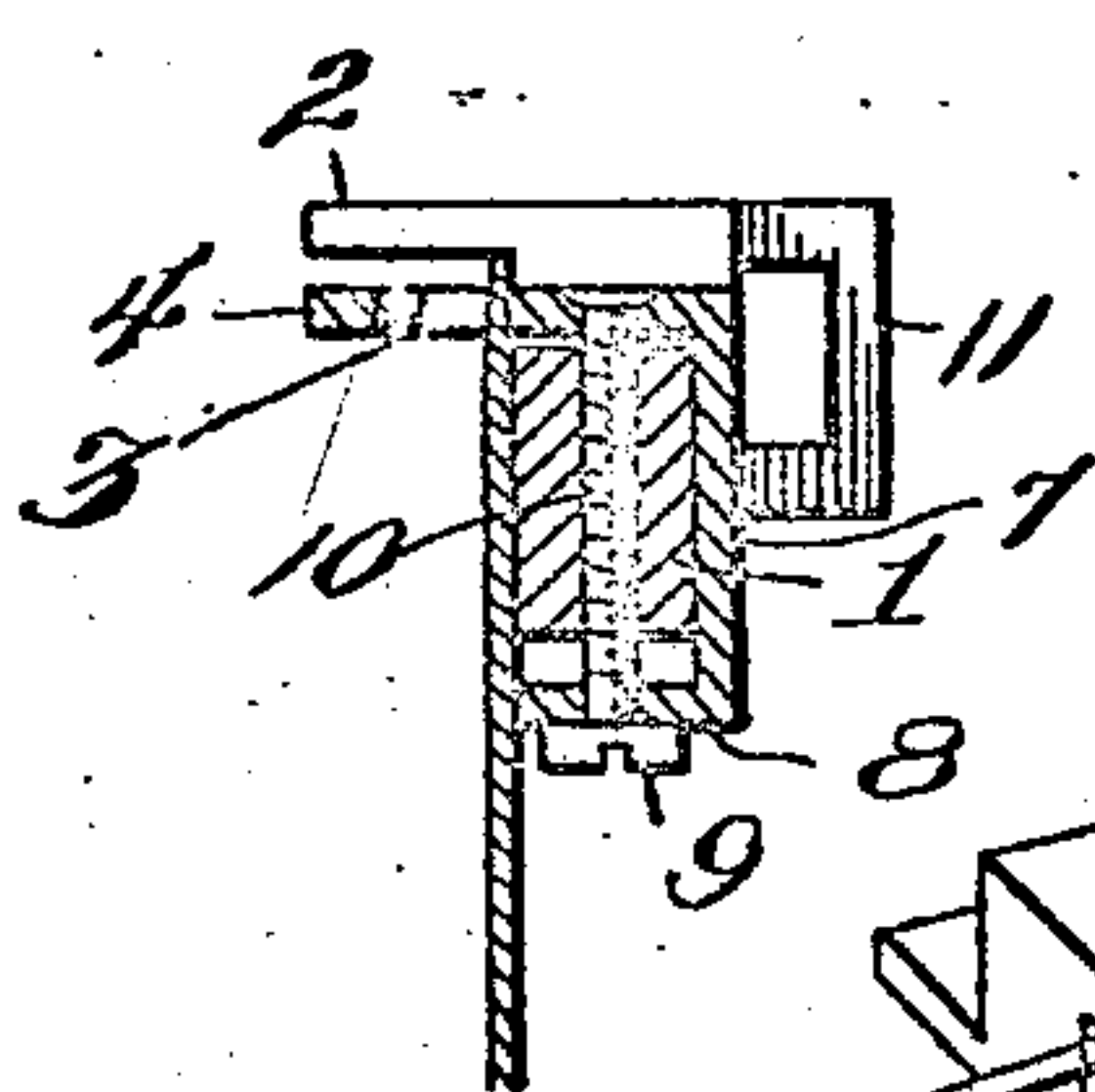


Fig. 3.

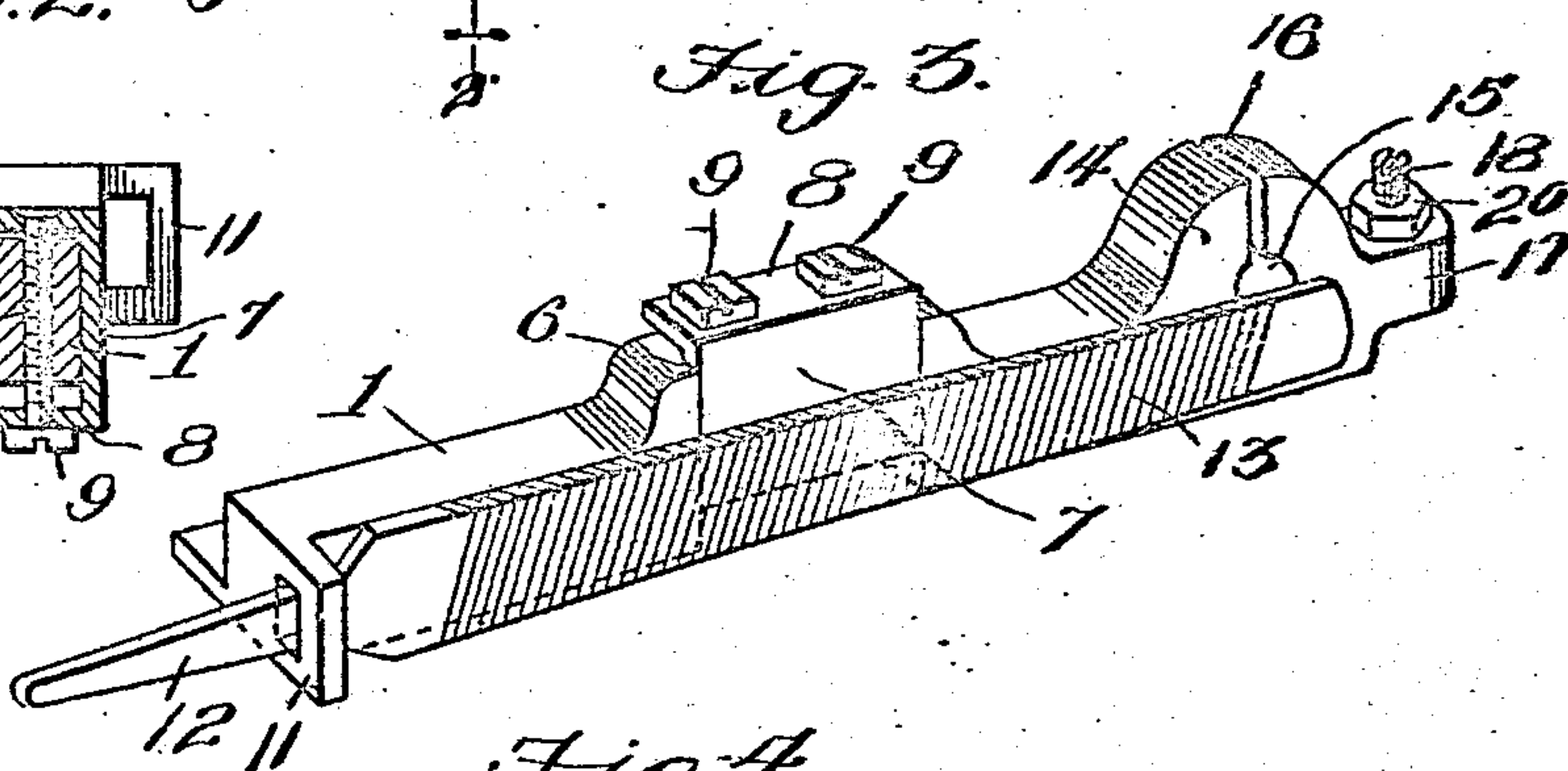


Fig. 4.

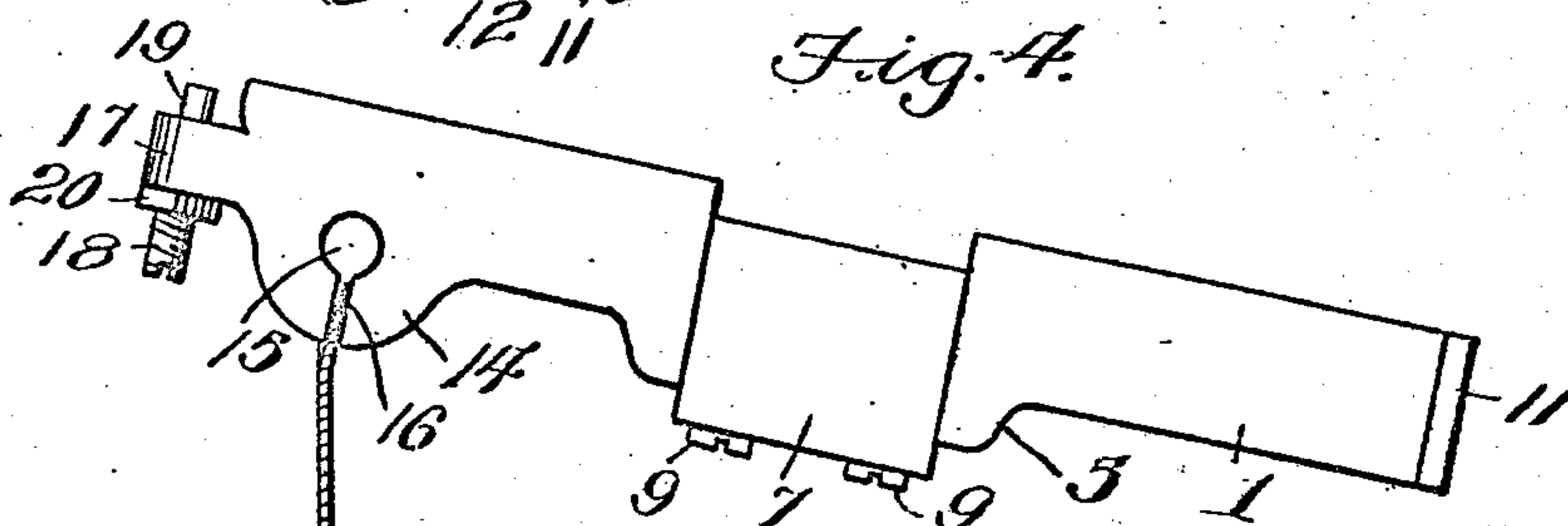
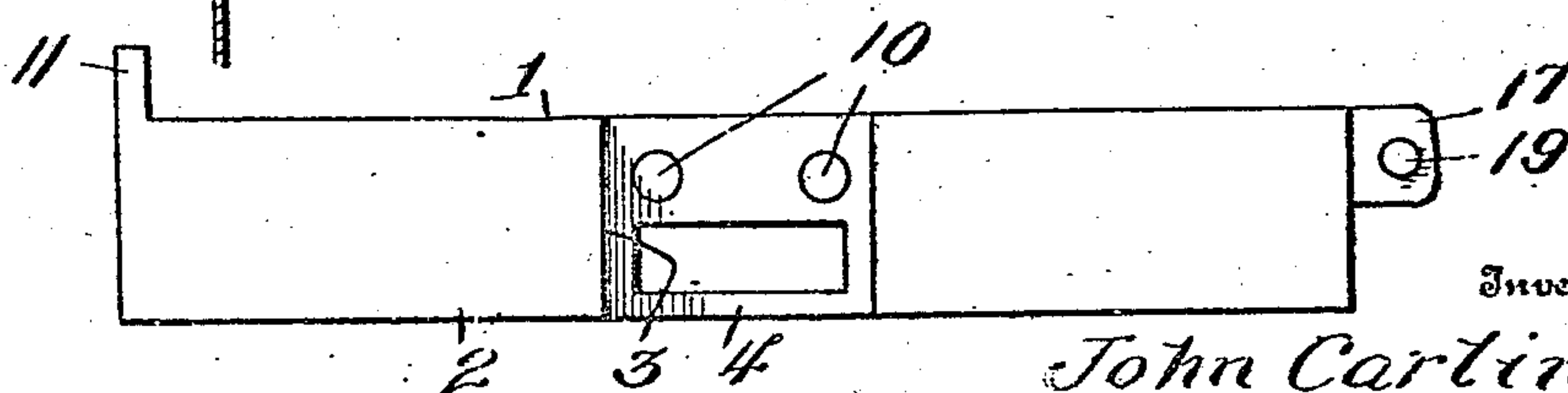


Fig. 5.



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UNITED STATES PATENT OFFICE.

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SAW-JOINTING AND SAW-SWAGING IMPLEMENT.

No. 898,964.

Specification of Letters Patent.

Patented Sept. 15, 1908.

Application filed January 10, 1908. Serial No. 410,202.

To all whom it may concern:

Be it known that I, JOHN CARLIN, a citizen of the United States, residing at Newton Falls, in the county of St. Lawrence and State of New York, have invented new and useful Improvements in Saw Jointing and Swaging Implements, of which the following is a specification.

This invention relates to saw jointing and swaging implements, and one object of the invention is to provide a more reliable adjustment for the gage of the cutting and raker teeth whereby said gage is held firmly and thoroughly braced relatively to the main body of the implement so as to withstand the strain brought to bear thereon during the operation of jointing the teeth of the saw.

A further object of the invention is to provide means for supporting a saw dressing file on the implement to facilitate the final dressing of the points of the teeth; also to provide an adjustable swaging gage whereby the degree of swaging of the teeth may be accurately determined.

With the above and other objects in view, the invention consists in the novel construction, combination and arrangement of parts as hereinafter fully described, illustrated and claimed.

In the accompanying drawing:—Figure 1 is a front elevation of the jointing and swaging implement of the present invention. Fig. 2 is a cross section through the same on the line 2—2 of Fig. 1. Fig. 3 is a reverse perspective view of the implement showing a file held thereby. Fig. 4 shows the implement in the act of swaging a tooth. Fig. 5 is a top plan view of the implement.

The implement comprises an oblong solid body 1 which may be of any suitable length and which for the purpose of carrying out the present invention is provided at the top with a laterally projecting flange or straight edge 2 the central portion of which together with the adjacent central portion of the body is cut away or recessed as shown at 3 to admit of the necessary up and down movement of the slotted head or gage plate 4 of the adjusting gage. Opposite the recess 3 the body 1 is offset as shown at 5 to reinforce the body where it is cut away to form the recess 3 and also to provide for the adjustment of the gage plate as will hereinafter appear.

In addition to the recess 3 at the top of the body, the back of the body is cut away or recessed as shown at 6 said recess extending

the entire height of the body and adapted to permit the body portion 7 of the jointing gage to set flush therein so as to be capable of movement up and down and bring the gage plate or head 4 to the desired elevation. The jointing gage 7, in addition to the head plate 4 is provided with a bottom flange 8 which extends beneath the off-set part 5 of the body 1 to receive the adjusting screws 9, two of which are preferably employed, the same extending upward through the bottom flange 8 and also through the head plate 4. The screws 9 are journaled to turn in the parts 4 and 8 of the gage but are threaded into the body 1 as shown at 10. Therefore, when the screws 9 are turned by means of a screw driver, they move upward or downward through the body 1 of the implement and carry the jointing gage in a corresponding direction so as to dispose the slotted gage plate 4 at any desired elevation with reference to the top flange or straight edge 2 of the body 1. It will be seen that the jointing gage is thus held both above and below the body of the implement by two separate and independent adjusting screws, thereby thoroughly bracing the gage relatively to the body of the implement and enabling it to withstand the strain applied thereto during the operation of jointing the teeth, it being well understood that the slightest movement of the gage plate would be fatal to the true and proper jointing of the saw teeth considered as a whole. The rigidity of the jointing gage is materially assisted by the inlaying of the body portion 7 thereof in the groove or recess 6 at the back of the body 1 which avoids any possibility of tilting the jointing gage after it has once been fixed in the desired position.

At one end, the body of the implement is provided with a laterally projecting file holding eye 11 adapted to receive the tapering shank 12 of an ordinary file 13 and to hold the same securely against the side of the implement as shown in Fig. 3, whereby the file may be drawn over the points of the teeth by using the implement as a handle for the file thus giving the final dressing to the points of the teeth and securing a uniform height for all the teeth.

The implement is further provided with a lateral offset 14 provided with a transverse bore 15 and a saw tooth receiving slot 16 which leads from the outside of said offset 14 inward to the bore 15. The teeth are succes-

sively caught in the slot 16 and bent laterally to one side or the other to afford the desired sway, using the implement as a whole as a handle for the swaging offset 14. The implement is also provided at one end with a projecting lug 17 having a threaded hole into and through which is secured a swaging gage screw 18 having a smooth plain end 19 against which the points of the teeth are adapted to rest when the outer surface of the flange or straight edge 2 is brought to bear against the saw blade. The gage 18 is provided with a jam nut 20 adapted to be screwed up against the lug 17 to fix the adjustment of the gage tooth 18 and thereby obtain a uniform gaging of the pitch of the saw tooth.

Having thus described the invention, what is claimed as new, is:—

20 An implement of the class described com-

prising a body having a flanged or straight edge for the saw teeth recessed in the top and one side, a jointing gage having a body portion which is inlaid in the recess in the side of the body, a slotted head or gage plate 25 which is movable up and down in the recess in the top of the body, and a body flange extending under the body, and one or more adjusting screws passing through said bottom flange and slotted head plate and journaled 30 in said parts and also having a threaded engagement with the body of the implement, substantially as described.

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

JOHN CARLIN.

Witnesses:

PAT CARLIN,
FRANK WARD.