

No. 617,612.

Patented Jan. 10, 1899.

J. H. STUKE.

SAW SET.

(Application filed July 19, 1898.)

(No Model.)

Fig. 1.

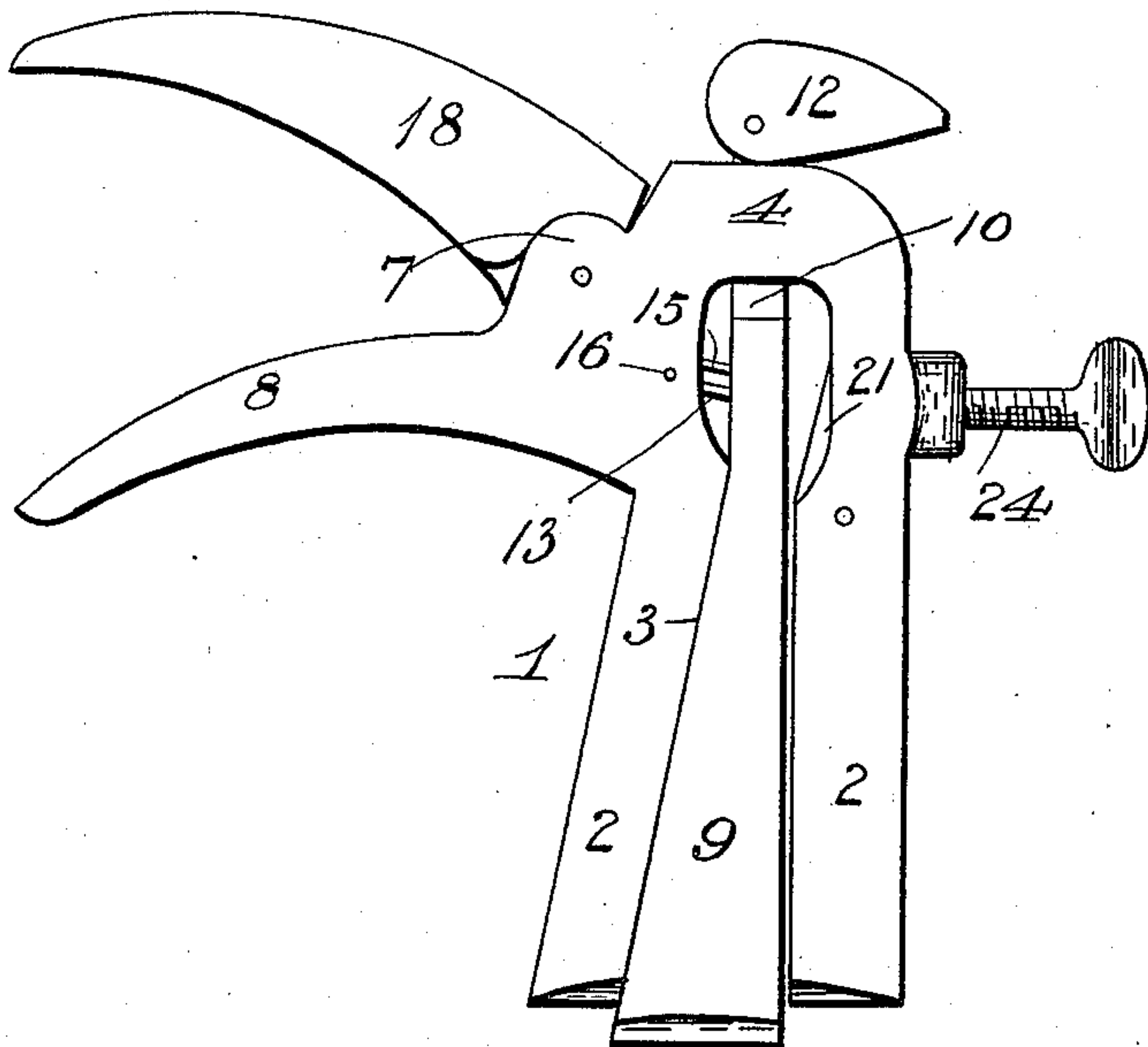
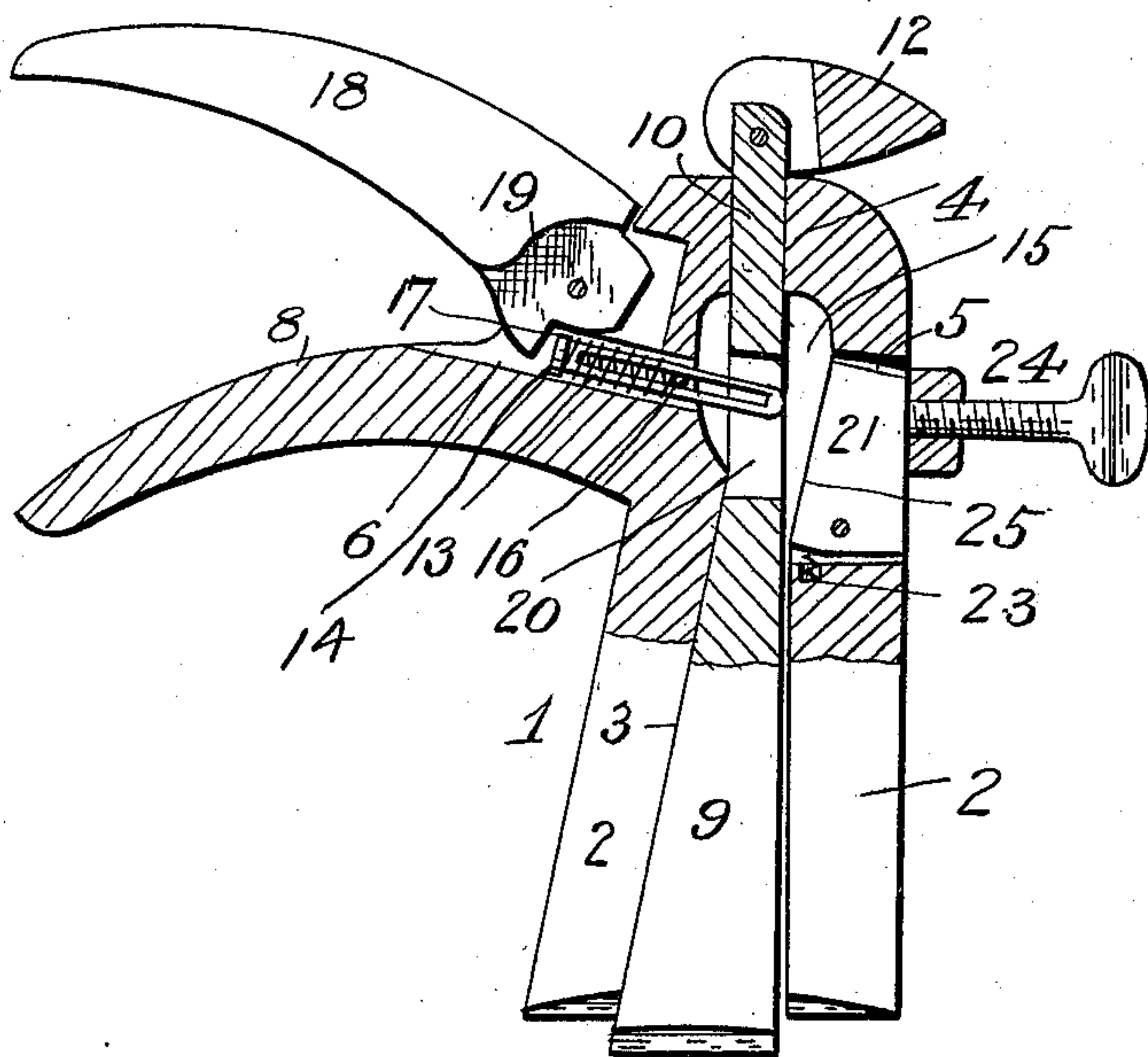


Fig. 2.



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UNITED STATES PATENT OFFICE.

JOHN H. STUKE, OF BEARDSTOWN, ILLINOIS.

SAW-SET.

SPECIFICATION forming part of Letters Patent No. 617,612, dated January 10, 1899.

Application filed July 19, 1898. Serial No. 686,337. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. STUKE, a citizen of the United States, residing at Beardstown, in the county of Cass and State of Illinois, have invented new and useful Improvements in Saw-Sets, of which the following is a specification.

My invention relates to saw-sets; and its object is to provide an improved construction of the same which shall possess superior advantages with respect to efficiency in use.

The ordinary or usual devices for setting saws are very defective in that it is almost impossible to have the tool hold the saw in proper position and every tooth set exactly alike. By my invention such defects are obviated.

The invention consists in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of a set-saw constructed in accordance with my invention. Fig. 2 is a longitudinal section of the same.

In the said drawings the reference-numeral 1 designates a metal block comprising the two arms 2, with a space or slot therebetween, one of said arms being beveled, as at 3, on its inner side. These arms are connected together at the upper ends by the horizontal portion 4, formed with an aperture or hole 5, for a purpose hereinafter described; also, formed in one of said arms is an inclined hole or passage 6 for the passage of a plunger, which will also be hereinafter described, which hole intersects the slot between said arms.

The numeral 7 designates two lugs, and 8 an outwardly-extending arm, forming a handhold.

Located in the slot or recess between the arms 2 is a wedge-plate 9, provided with a shank 10 at its upper end, to which is pivoted a cam 12, by turning which the wedge-plate can be elevated and held in such position.

Located in the inclined passage 6 is a plunger 13, provided with a head 14 and formed with a slot 15, through which passes a pin 16, which holds the plunger in place. A coiled spring 17 encircles said plunger. Pivoted to the

lugs 7 is a lever 18, provided with a lug 19, which engages with the head of the plunger and forces it forward. The said plunger passes through an opening 20 in the wedge-plate. The arm of the block 1 opposite that to which the lever 18 is pivoted is formed with a recess, in which is located a plate 21, pivotally connected therewith and provided with a spring 23. Bearing against this plate 21 is a set-screw 24 for throwing it forward, so as to change its inclination. The said plate 21 is beveled on its inner side, as seen at 25.

The operation is as follows: The saw is inserted in the block 1 between the straight or vertical side of one of the arms and the corresponding side of the wedge, and when in proper position for setting the said wedge is drawn upward by turning the cam 12, which will cause the wedge to securely clamp the saw between it and the block. The beveled plate 21 is now adjusted at the proper angle by means of the set-screw, and the lever 18 is depressed by grasping it and the arm 8 and forcing said lever outward, when the lug on the lever will engage with the head of the plunger, forcing it forward and causing the end thereof to force the saw-tooth against plate 21, thus setting the same, so that all the teeth will be set exactly alike.

Having thus fully described my invention, what I claim is—

1. In a saw-set, the combination with the block having a slot therein, and the movable wedge located in said slot, of the plunger, the lever, the spring-actuated beveled plate and the set-screw for adjusting the same, substantially as described.

2. In a saw-set, the combination with the block formed with a slot, the wedge located in said slot, the shank of said wedge passing through said block, and the pivoted cam, of the plunger, the lever for operating the same, the spring-actuated beveled plate, and the set-screw, substantially as described.

3. In a saw-set, the combination with the block, comprising the two connected arms with a space therebetween, the wedge located in said space formed with a hole or aperture, the shank passing through said block and pro-

vided with a pivoted cam, the headed plunger,
the coiled spring and the pivoted lever pro-
vided with a shoulder engaging with said
plunger, of the pivoted spring-actuated bev-
5 eled plate and the set-screw for adjusting the
same, substantially as described.

In testimony whereof I have hereunto set

my hand in presence of two subscribing wit-
nesses.

JOHN H. STUKE.

Witnesses:

HENRY F. HUPPE,
FRED WITTE.