

(No Model.)

J. W. & J. K. PETTY.

SAW SET AND CLAMP.

No. 266,385.

Patented Oct. 24, 1882.

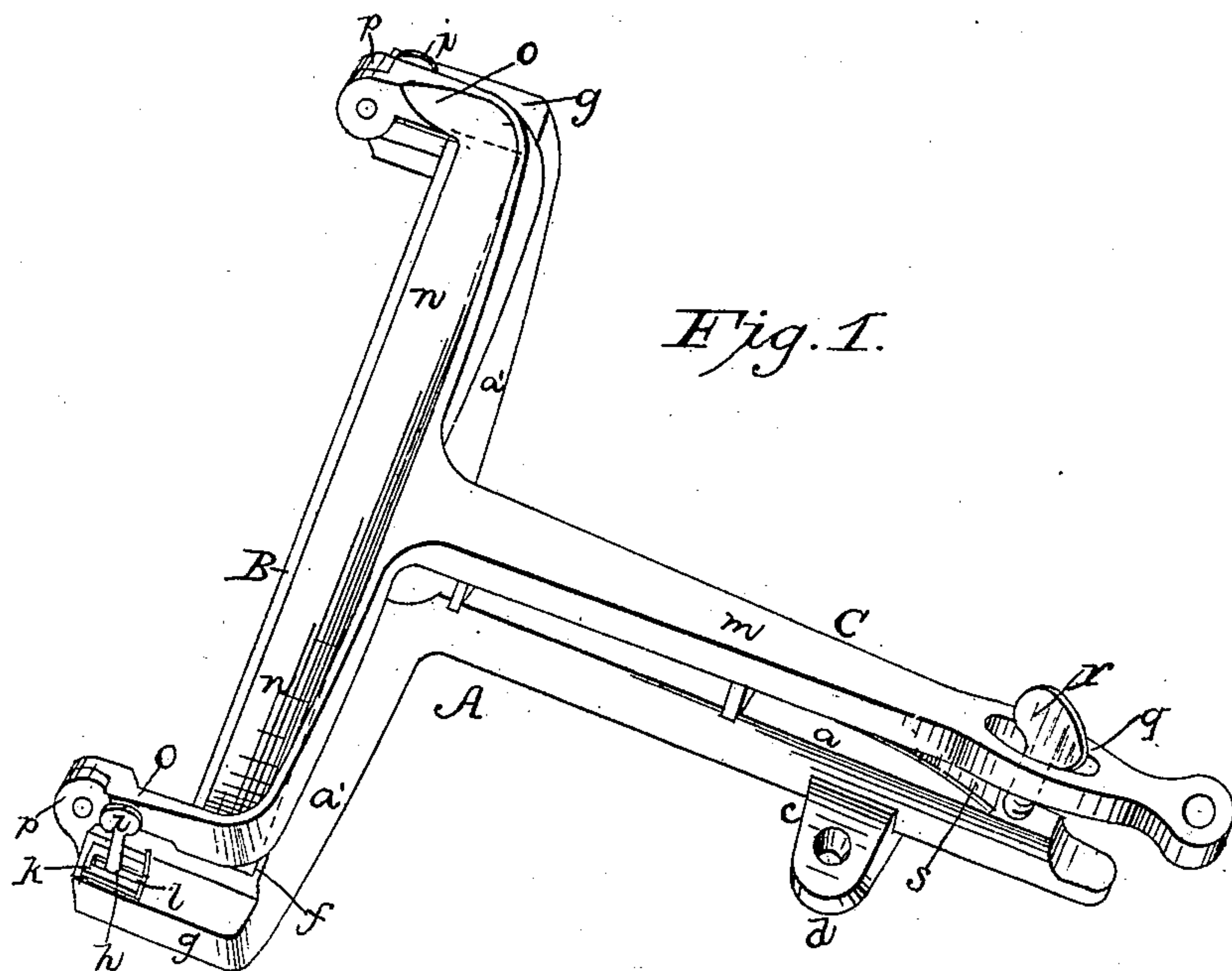


Fig. 1.

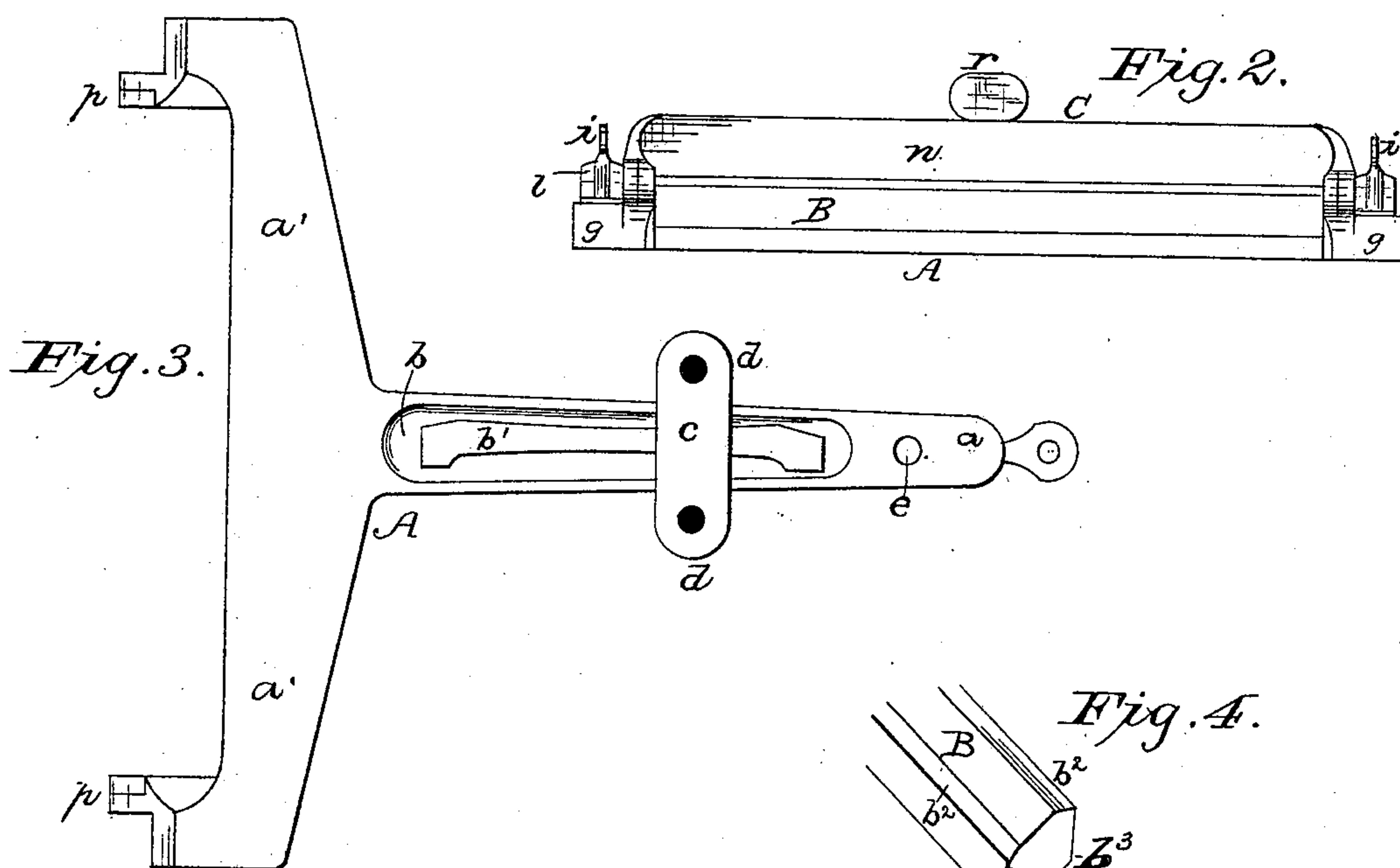


Fig. 2.

Fig. 3.

Fig. 4.

WITNESSES

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JOHN W. PETTY AND JAMES K. PETTY, OF OMAHA, NEBRASKA.

SAW SET AND CLAMP.

SPECIFICATION forming part of Letters Patent No. 266,385, dated October 24, 1882.

Application filed October 25, 1881. (No model.)

To all whom it may concern:

Be it known that we, JOHN W. PETTY and JAMES K. PETTY, citizens of the United States of America, residing at Omaha, in the county of Douglas and State of Nebraska, have invented certain new and useful Improvements in Saw Sets and Clamps; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This invention consists in certain improvements, as hereinafter described and claimed, on the saw set and clamp described in Letters Patent No. 221,470, issued November 11, 1879, to Solomon Petty.

In the drawings, Figure 1 represents a perspective view; Fig. 2, a front view; Fig. 3, a bottom plan view of the improved device. Fig. 4 shows in perspective one end of the anvil.

A represents the base, B the anvil, and C the clamp.

The base A consists of a longitudinal arm, *a*, and a transverse arm, *a'*. The longitudinal arm is preferably constructed of gradually-tapering form from top to bottom, where it is broad to afford a firm bearing-surface. The under side of this arm is recessed at *b* to afford a receptacle for the punch or saw-set when not in use. A lug, *c*, having perforated ears *d*, is constructed to fit the under side of the base, and is adapted to slide along said base, and serves as a clamp to hold said base firmly to the work-bench or other support, and also, by bridging the recess *b*, to hold the punch *b'* therein. At the rear end of this arm *a* is a screw-hole, *e*, in which works the lower end of a thumb-screw for retaining the clamp, as hereinafter described. The transverse arm *a'* is recessed at *f* to receive the anvil B, which is narrower and longer than the anvil described and shown in the above-mentioned patent, and is beveled on three of its edges, *b²*, to adapt it for use in setting saws, its other edge, *b³*, being formed square to adapt it for use in filing saws. These bevels *b²* may be of different degrees of depth or width to adapt the anvil to saws of differing degrees of fineness. This anvil, while con-

structed to fit snugly within the recess *f*, can be readily lifted out and removed and turned over or around so as to bring that edge to the front which it is desired to use. At each end of the arm *a'* is a horizontal projection having screw-hole *h* to receive the lower end of a thumb-screw, *i*. Upon these projections *g* slide slotted guides or clamps *k k*, having upwardly-projecting pieces *l*. By adjusting these guides inward or outward, which may readily be done by loosening the thumb-screw *i*, the extent of the outward projection of the saw to be operated upon may be regulated, and as the toothed end of the saw rests against the pieces *l* the depth of the set may easily be regulated to any desired degree. The thumb-screws *i i* serve to retain and clamp the guides *k* in any desired position.

The clamp C consists of a longitudinal arm, *m*, and a transverse arm, *n*, of lengths corresponding to the length of the arms of the base A. Its horizontal projections *o*, at either end of the arm *n*, are pivotally connected to projections or standards *p* on the projections *g* of the base, so that said clamp may be readily raised and turned over to any desired angle whenever it is desired to change the position of the anvil or insert a saw. At the rear end of the arm *m* is an elongated slot, *q*, in which works a thumb-screw, *r*, for the purpose of holding the rear end of the clamp down. To raise this end in order that the clamp may be raised from the saw or turned over, a quarter-revolution is given the thumb-screw *r*, which will bring the edge of its flattened portion in line with the elongated slot *q*, when the spring *s*, secured at one end to the under side of the arm *m*, will force said arm up and away from the screw *r*, the upward movement of the arm *m* at the same time raising the transverse arm *n* sufficiently to admit of the removal of the saw from the clamp. This spring *s* is shown as consisting of a downwardly-curved plate-spring with one end secured to the under side of the arm *m*, its other end being free and pressing against the upper face of the arm *a* of the base; but it is evident that any other form of spring capable of a similar method of operation may be used, as found most convenient.

It is designed to construct all the parts wholly of metal.

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

1. In a saw set and clamp, the combination of the base A, having arms *a a' g*, standards *p*,
5 slotted guides *k*, and thumb-screws *i*, and the clamp C, having arms *m n o*, pivotally secured to the standards *p*, and elongated slot *q*, and the thumb-screw *r*, supported by the base A and operating within the slot *q*, substantially
10 as and for the purpose set forth.
2. The combination, with the base A, of the clamp C, pivotally secured at its front end to the front end of said base, and having at its rear end an elongated slot, *q*, the spring *s*, se-
15 cured at one end to the under side of the arm *m*, its free end resting against the upper face of the base A, and the thumb-screw *r*, having bearing in said base and adapted to enter said slot and engage the clamp arm *m*, substantially
20 as and for the purpose set forth.

3. In a saw set and clamp, the base A, having longitudinal arm *a* and a transverse arm, *a'*, having recess *f*, anvil B, having one square and three beveled edges, and adapted to fit within said recess *f*, and the clamp C, having
25 a longitudinal arm, *m*, and a transverse arm, *n*, pivotally connected at each end to standards *p*, to adapt the same to be turned over upon said base and retain the anvil and the saw to be operated upon in position, substantially as
30 set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

J. W. PETTY.
JAMES K. PETTY.

Witnesses:

GEORGE T. MILLS,
CHAS. B. MATHEWSON.