

(No Model.)

J. W. PACKARD.
SAW SET.

No. 528,554.

Patented Nov. 6, 1894.

Fig. 1.

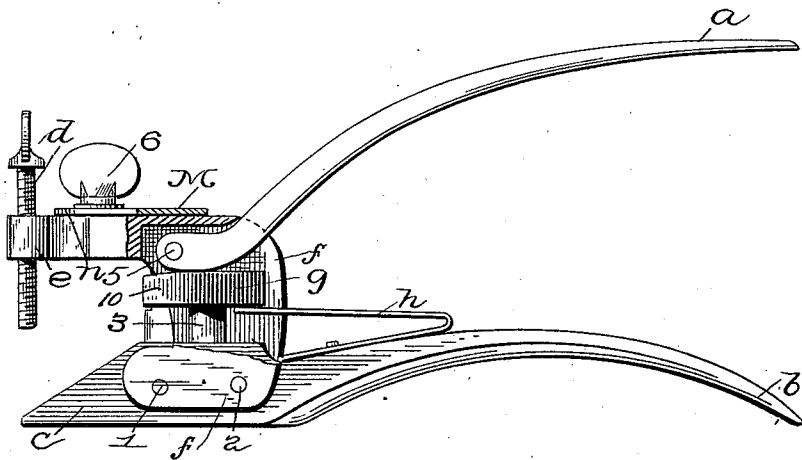


Fig. 2.

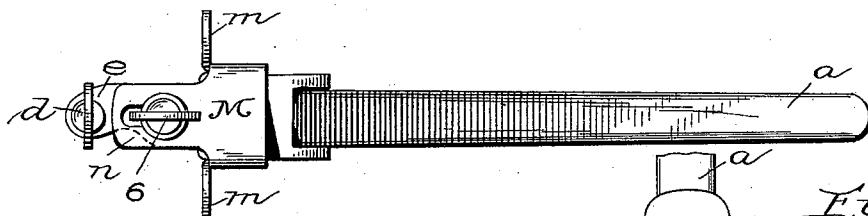


Fig. 3.

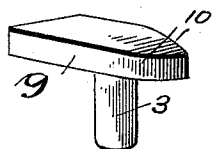
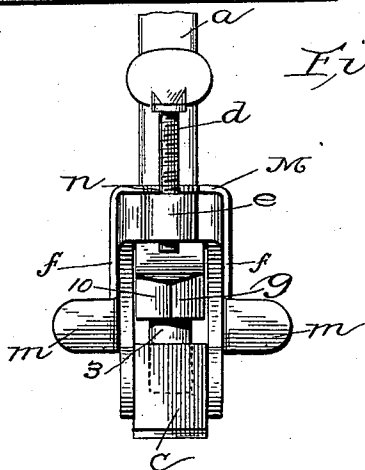


Fig. 4.



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UNITED STATES PATENT OFFICE.

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SAW-SET.

SPECIFICATION forming part of Letters Patent No. 528,554, dated November 6, 1894.

Application filed April 14, 1894. Serial No. 507,555. (No model.)

To all whom it may concern:

Be it known that I, JEROME W. PACKARD, a citizen of the United States of America, residing at Malden, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Saw-Sets, of which the following is a specification.

My invention is an improved sawset of that class, in which the tooth of the saw is bent by means of a movable jaw, operated by a lever, which forms a part of the handle.

It is illustrated in the accompanying drawings, which form a part of this specification, and in which—

Figure 1—shows the tool in side elevation, and part of the wall being broken away to disclose the form of the cam. Fig. 2— is a top view of the same. Fig. 3— shows the pressing block detached. Fig. 4 is a front view of the tool.

The object of my invention is to produce a simple and effective instrument, which can be easily and cheaply made, and which is not liable to get out of repair, and which is very easily operated.

In the drawings, the upper and lower handles are shown at *a, b*. The lower handle is in one piece with the anvil *c* which has the shape at its front end ordinarily given in instruments of this class.

The regulating screw *d*, is carried in the front end of an arm *e*, which is cast in one piece with two side plates, *f, f* which extend down and fit snugly against the sides of the anvil to which they are connected by small bolts 1, 2. These side plates form a chamber in which are located the block *g*, and the pivoted end of the movable handle or lever. The block *g*, is formed with parallel sides fitting snugly in the cavity, but adapted to move freely up and down. On its under face, the block has a stud 3, which fits into a cavity in the upper face of the anvil within the side plates. The forward end of the block is beveled upon its sides 10 to an edge forming the ordinary V-shaped front.

The rear of the block forms a shoulder, under which rests the free end of a spring *h*, which tends to lift the block when the pressure is removed therefrom. The upper han-

dle or lever has a hole in its forward end and from the hole it is curved to the rear, so that the lower face, which bears upon the block, acts as a cam, when the lever or upper handle is depressed, to force down the block and to cause it to act upon the tooth. Holes are made in the upper part of the side plates to receive the bolt 5, on which the lever is pivoted. The strain and wear do not necessarily come upon this pivotal bolt, since the upper part of the pivoted end of the lever, bears against the upper wall of the chamber.

The gage for regulating the depth of the grip is formed by wings *m, m*, which are formed upon a clip, *M*. This clip is made out of a piece of sheet metal, the sides of which fit movably over the side plates, while the top rests upon the upper face of the arm. The top has a forward extension *n*, slotted to receive a thumb-screw 6, which fits a hole tapped in the arm, so that the clip with its gaging wings may be adjusted forward or backward and be firmly held adjustably upon the arm. The sides of the clip cover the ends of the pivotal bolt and retain it in place so that the lever may be readily removed.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

In combination, the handle having the anvil formed integral therewith of the arm having side plates fitting against the sides of the anvil and secured thereto forming a chamber, the bearing block having a depending guiding pin fitting an opening in the anvil and sliding vertically in said chamber, a leaf spring bearing under the shoulder formed by the rearward extension of said block and the upper handle having its forward end arranged intermediate of the block and top wall of the chamber and pivoted between the side walls adapted to be operated to depress said block, substantially as described.

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

JEROME W. PACKARD.

Witnesses:

STEPHEN W. HARMON,
ALBERT M. ELLIS.