(No Model.)

C. MORRILL.

SAW SET.

No. 375,088. Patented Dec. 20, 1887.

Fig. 1.

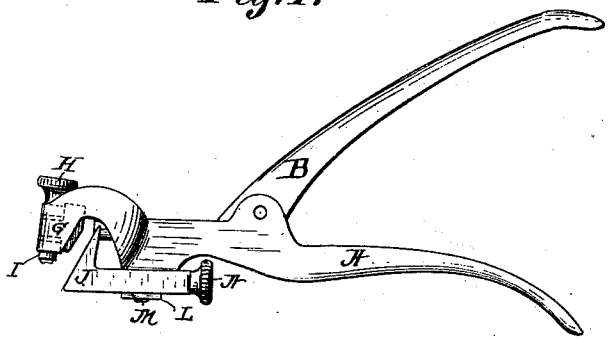


Fig. 2.

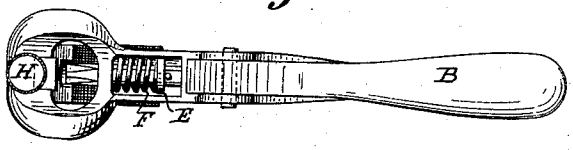


Fig. 3.

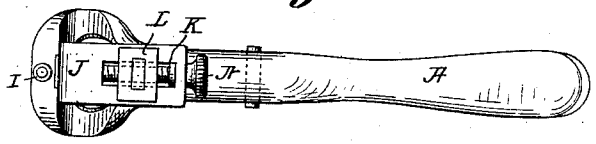
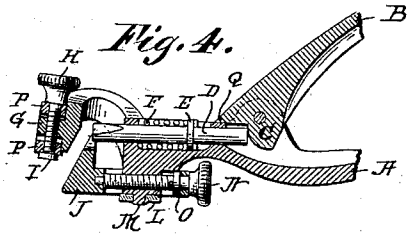


Fig. 4.



Witnesses.

Inventor:
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UNITED STATES PATENT OFFICE.

CHARLES MORRILL, OF JERSEY CITY, NEW JERSEY.

SAW-SET.

SPECIFICATION forming part of Letters Patent No. 375,088, dated December 20, 1887.

Application filed May 16, 1887. Serial No. 238,422. (No model.)

To all whom it may concern:

Be it known that I, CHARLES MORRILL, residing at Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Saw-Sets, of which the following is a description in such full, clear, concise, and exact terms as will enable any one skilled in the art to which my invention relates to make and use the same, reference being had to the accompanying drawings, making part of this specification, and to the letters and figures of reference marked thereon.

Similar letters of reference indicate corresponding parts in all the figures of the drawings.

Figure 1 illustrates a side view of my improved saw-set. Fig. 2 illustrates a top view; Fig. 3, a bottom view, and Fig. 4 a section through my improved tool, parts being broken away.

Referring to the drawings, A is a handle, which is prolonged and forms the stock of the tool and its anvil-seat P. Attached to the handle A by a pivot-joint is a handle-lever, B. This handle, as is clearly illustrated in Fig. 4, is provided with a stop projection, Q, to limit its motion and prevent its retreating too far from the handle A. This handle B is also provided with a short toe, C, resting against one end of the hammer D, which is provided with a collar and pin, E, against which the spring F bears. The hammer D and spring F set in a channel cut in the stock of the tool. This spring at one end bears against the end of said channel and at the other against the collar E on the hammer D, and constantly presses the hammer down; and said hammer, bearing against the toe of the handle B, keeps the handles of the saw-set constantly apart and the hammer drawn away from its anvil.

G is an anvil, beveled, as shown, and provided with means for positively and accurately adjusting the position of said anvil. These means, illustrated in the drawings, consist of a pin, H, having a washer, I, attached to one end and milled at the other to form a thumb-screw. This pin H passes through two smooth holes in the ends of the anvil-seat P, and is screw-threaded, as shown. The anvil G is pierced by a screw-threaded hole, through which the screw-threaded pin H passes, and with which it engages, so that by turning the pin H the anvil is caused to travel forward or backward, and so adjusted for saws of different-sized teeth, while the pin H remains stationary.

It is not only necessary to adjust a saw-set to accommodate and set different-sized teeth; but it is also necessary to provide the tool with means whereby the inclination or "set" of the teeth can be varied and adjusted for various kinds of work. For this purpose I provide my saw-set with a shoulder or rest in front of the anvil and hammer to raise or lower the blade of the saw as it goes in the tool, and to furnish a guide to indicate and determine the position in which the saw must be held to give the required and also a uniform set to the teeth. This shoulder or rest J is provided with means for accurately adjusting its position. This shoulder J consists of a plate of metal having the slot K, Fig. 3. The plate is first put in position over the stud M, and then the washer L is riveted on, holding the said plate permanently in place. The stud M is tapped with a screw-threaded hole, through which a screw-threaded pin, N, passes, having a shoulder, O, at one end and a smooth point fitting in a smooth hole at the other, whereby the said screw-threaded pin is maintained constantly fixed with relation to said shoulder piece or rest J. As the screw-pin N is turned one way or the other, the said pin, carrying with it the shoulder-piece J, is adjusted to position.

It will be observed that by means of the screws H and N the anvil and the shoulder-piece may each be accurately adjusted to any desired position and firmly held while the tool is being operated, and that each adjustment permits of very small and accurate variations.

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

1. In a saw-set, the combination of an anvil-seat, an adjustable anvil, and a screw-pin fixed to and revolving in said head-piece and engaging with said adjustable anvil, substantially as and for the purposes set forth.

2. In a saw-set, the combination of a stationary stud, an adjustable shoulder-piece, and a screw-pin fixed to and revolving in said shoulder-piece and engaging with said stationary stud, substantially as and for the purpose set forth.

Witnesses:
J. EDGAR BALL,
JAMES RAY.

CHAS. MORRILL.