

(No Model.)

C. MORRILL.
SAW SET.

No. 507,152.

Patented Oct. 24, 1893.

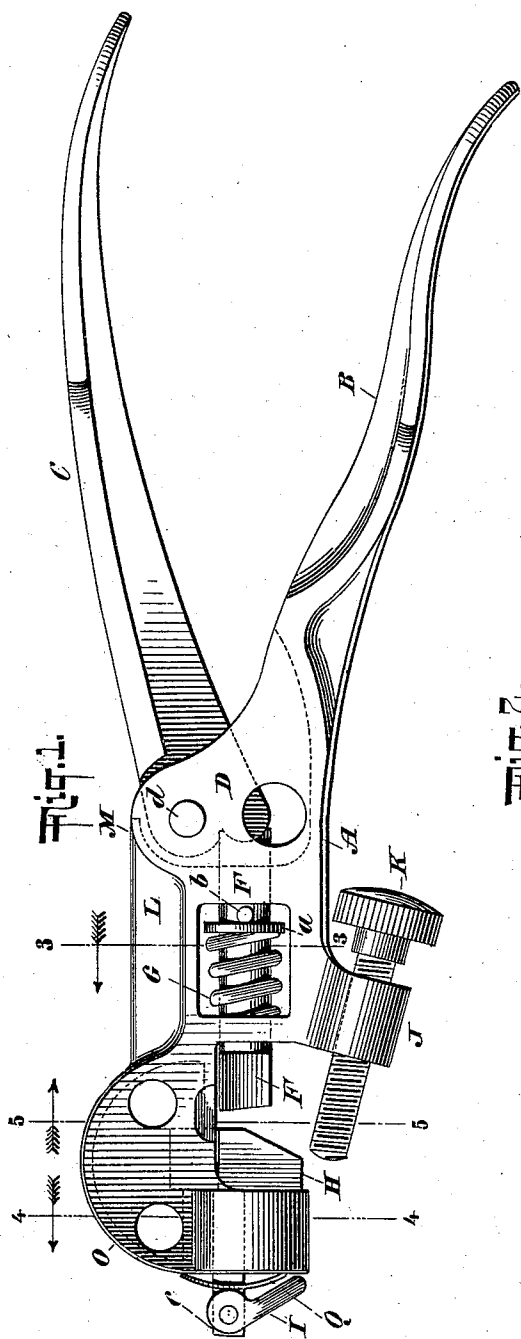


Fig. 1.

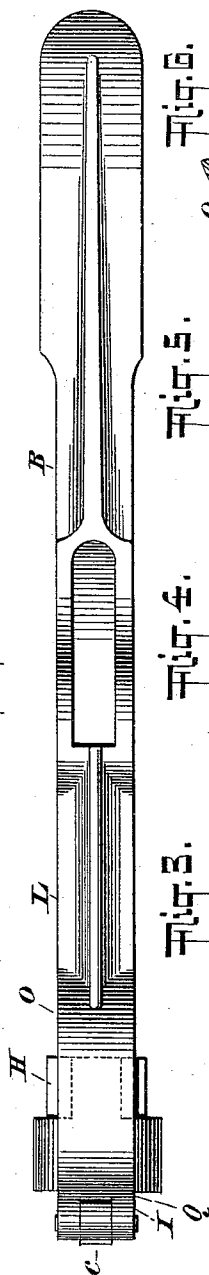
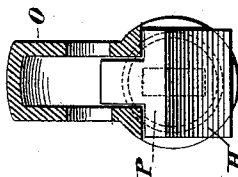
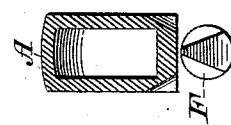
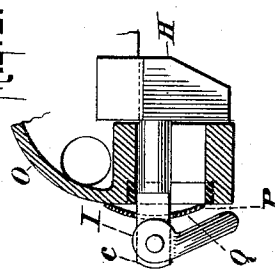


Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.



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CHARLES MORRILL, OF NEW YORK, N. Y.

SAW-SET.

SPECIFICATION forming part of Letters Patent No. 507,152, dated October 24, 1893.

Application filed July 21, 1893. Serial No. 481,106. (No model.)

To all whom it may concern:

Be it known that I, CHARLES MORRILL, a citizen of the United States, residing at the city of New York, in the county and State of New York, have invented certain new and useful Improvements in Saw-Sets, of which the following is a specification.

My invention relates to novel improvements in saw sets, and consists in the combination, connection and arrangement of parts herein-after more fully set forth.

In the accompanying drawings forming part of this specification Figure 1, represents a side view of my new saw set. Fig. 2, is a plan view thereof. Fig. 3, is a detail sectional view on the line 3—3 Fig. 1, looking in the direction of the arrow and showing the construction of the strengthening rib L. Fig. 4, is a detail sectional view on the line 4—4, Fig. 1, looking in the direction of the arrow, and showing the construction of the anvil H, and the hollow head of the tool, within which the anvil H is adapted to work. Fig. 5, is a detail sectional view on the line 5—5 Fig. 1, looking in the direction of the arrow and showing an end view of the hammer F, and Fig. 6, is a similar view showing the construction of the movable anvil H, and the means for holding the same in position.

Similar letters of reference refer to similar parts throughout the various views.

In the drawings A, designates the hollow stock of my tool, having one end thereof extended and terminating in the solid lower handle B, within this stock, and working on the pin d, is fitted the movable lever handle C, which is provided with the semi-circular toe D, adapted to work in the concave end of the hammer F. The hammer F, works in a channel in the center of the stock A, and is maintained in position by the coil spring G, collar a, and pin b, passing through said hammer F. The ends of the coil spring G, in pressing against the forward side of the square recess cut in the stock, and against the collar a secured to the hammer F, cause the concave end of the hammer to be in continual contact with the semi-circular toe D, on the handle C, and thereby keep the handles B, C, constantly apart from each other, and the forward end of the hammer F at the required distance from the anvil H.

The forward end of the stock forming the head piece O, is cast hollow and thereby forms a guide-way within which the recessed upper portion of the movable anvil H, is adapted to work, as shown in Figs. 1, 4 and 6. The solid lower portion of this head piece O, is adapted to receive the means for adjusting the movable anvil H, and locking the same in its adjusted position, and also serves as a seat for said movable anvil. This means for adjusting and locking the anvil H consists of a slot cut through the head O, of the tool leading from the anvil seat to the outer surface of said head. Into the outer surface of this head O, is cut a circular recess into which is fitted a circular metal disk P, having a rectangular slot e, as indicated by the dotted lines Fig. 4, and the detail sectional view Fig. 6. Through the slot e, in disk P extends the stem c, carrying an eccentric I, and a spring Q, between the eccentric I, and the head O, and with this spring Q, the eccentric I is adapted to lock.

On the lower side of the stock A, and integral therewith is provided the means for adjusting and maintaining the saw in proper position preparatory to setting its teeth, and consists of a lug J, through which passes an adjusting or set screw K; the same being at an angle to the horizontal center of the hammer F, and forms a bearing for the saw blade. By turning this adjusting screw forward or backward the pitch of the saw blade is increased or diminished thereby giving to its teeth, when the hammer F, is brought to bear upon them, the desired degree of setting.

By means of the novel construction of the handle C, which is pivoted within the stock A, and provided with the semi-circular toe D, a powerful leverage is obtained by the exercise of a very slight pressure upon the handles. This makes it necessary to provide the anvil-seat and the hollow head O, with a sufficient support to withstand the strain, and this I accomplish by casting integral with the stock A, between the head of the tool and the shoulder M, a strengthening rib L.

The operation of my improved saw set is as follows:—The eccentric I, on the stem of the anvil H, is first thrown out of contact with the convex surface of the spring Q, and the anvil H, properly adjusted. Thereupon the eccentric I, is again brought in contact with the

said surface thereby securely locking the anvil in its adjusted position. The rest screw K, is then adjusted so that the plane of the saw, when inserted into the tool, will be at about
5 right angles to the said rest screw, and the teeth of the saw placed upon the anvil H, in such a way that when the handles B, C, are compressed the hammer F, will strike the end
10 of one of said teeth, and force the same against the anvil H, thereby giving to the tooth the setting desired. The handles B, C, are then released and the next tooth placed in position on the anvil, and the same operation is repeated with each tooth until all have been so set.
15 Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a saw-set, the hollow reinforced head piece having a guide-way, within which a
20 movable anvil is adapted to work, combined with means for adjusting and securely lock-

ing said movable anvil, substantially as, and for the purpose set forth.

2. In a saw set having an anvil seat, combined with an anvil adjustable on said seat, 25 and an eccentric and spring for locking the anvil in its adjusted position, substantially as, and for the purpose set forth.

3. In a saw set having an anvil seat, and an anvil adjustable thereon and having a stem 30 extending to the outer end of the tool, combined with an eccentric and spring carried by said stem for locking the anvil in its adjusted position, substantially as, and for the purpose set forth.

Signed at the city of New York, in the county and State of New York, this 19th day of July, 1893. 35

CHARLES MORRILL.

Witnesses:

FRED N. UPHAM,

HENRY H. HASELTON.