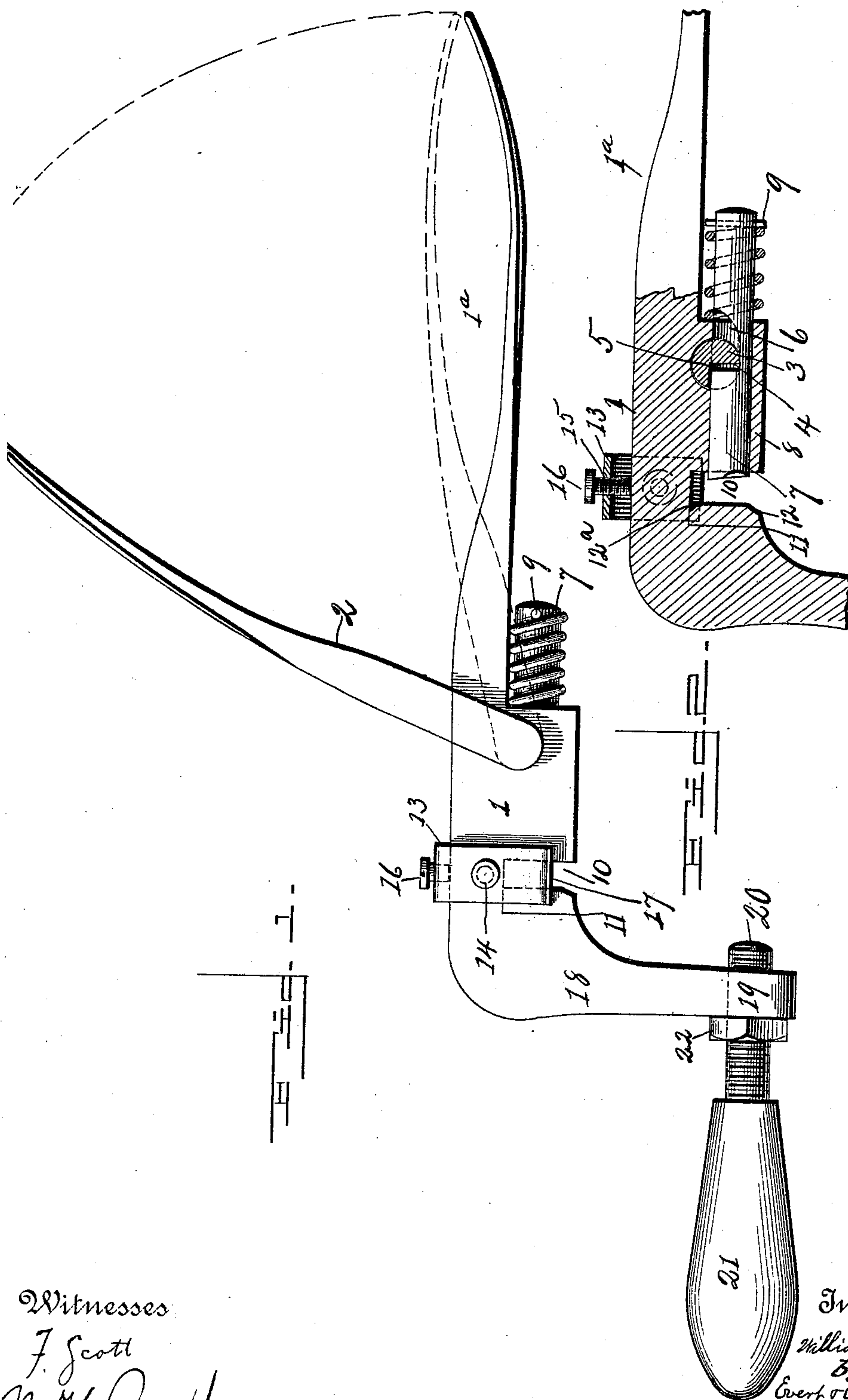


(No Model.)

W. H. MILLER.
SAW SET.

No. 519,583.

Patented May 8, 1894.



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UNITED STATES PATENT OFFICE.

WILLIAM H. MILLER, OF SPRING CREEK, VIRGINIA.

SAW-SET.

SPECIFICATION forming part of Letters Patent No. 519,583, dated May 8, 1894.

Application filed January 23, 1894. Serial No. 497,809. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. MILLER, a citizen of the United States of America, residing at Spring Creek, in the county of Rockingham and State of Virginia, have invented certain new and useful Improvements in Saw-Sets, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain new and useful improvements in saw sets of which the following is such a clear, full and exact description as will enable others skilled in the art to which it appertains to make and use the
15 same.

The object of my invention is to provide a saw set adapted for use on all forms of saws and on which will work effectively on circular, band, cross-cut, and hand saws, which, owing
20 to their varying widths cannot be set except by an adjustable instrument or one especially designed for the work.

A further object of my invention is to produce a simple and comparatively inexpensive
25 construction which will be strong and durable as well as efficient and satisfactory in use; furthermore, the invention consists in the novel manner of operating the plunger or hammer and in communicating motion thereto
30 from the handle or lever.

Finally the invention resides in the various novel details of construction, arrangement and combinations of parts to be hereinafter more fully described and specifically pointed
35 out in the claim.

In describing the invention in detail reference is had to the accompanying drawings forming part of this specification, wherein like numerals indicate corresponding parts in
40 both the views, in which—

Figure 1, is a side view of my improved saw-set. Fig. 2, is a similar detail view partly in section.

In the drawings, 1, denotes the body-portion
45 of the device with an extending arm 1^a, while 2, indicates a pivotally secured arm, which with the arm 1^a, forms the handle; the arm 1^a carries a shaft 3, having a V-shaped longitudinal groove forming a shoulder 4, adapted to
50 snugly fit and operate against the wall 5, of a transverse recess 6, of the spring pressed plunger 7; said plunger being slidingly mounted

in a bearing 8, of the body-portion and provided with a pin 9, near its outward extremity which acts as a stop for the coil spring surrounding the plunger and seated against the
55 end of the bearing.

The body-portion on its underneath side is cut away to form a transverse slot 10, forming a shoulder 11, to which is attached an anvil 12, beveled at 12^a that swaged teeth may be
60 operated on without injury; directly above the said slot on the body-portion is arranged a yoke 13, attached by means of a binding screw 14, passing through the face thereof. The yoke is also provided with an aperture
65 15, on its top face for the reception of the adjusting screw 16. The yoke is further provided with outwardly extending flanges 17.

The body portion has right angular extension 18, terminating in a lug 19, adapted to receive the screw-threaded bolt 20, of the
70 handle 21, the nut 22, is fixed on the screw-threaded bolt and serves to gage or regulate the bolt 20.

After the saw is secured in a vise in the well known manner, the anvil is placed against the side of a tooth and a pressure brought to bear on the pivotal arm which is brought to the position shown in dotted lines Fig. 1, thus partially rotating the shaft and communicating
80 motion to the plunger, which is forced against the opposite side of the saw tooth, on which a firm hold is obtained. To give the saw tooth the desired set, the screw threaded bolt 20 is set to abut against the side of the saw at the angle required and the nut 22, brought flush against the side of the lug; and by means of the handles 2, 1^a and 21, the power is applied
85 in the well known manner, and when the handles are released the arms and plunger are returned to their normal positions. The yoke regulates the depth of the bite to be taken on the saw and its adjustment is easily and quickly accomplished.

95 It will be particularly noted that various changes may be made in the details of construction without materially departing from the general idea involved.

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

In a saw set, the combination with the body portion provided with an extending arm and

a slot to receive the saw teeth, of the yoke
above said slot, the arm carrying a pivotal
shaft with a V-shaped recess forming a shoul-
der, the spring pressed plunger actuated by
5 said pivotal shaft, a right angular lug extend-
ing from the body portion and provided with
a threaded aperture, and a screw threaded
handle adapted to enter the aperture of the
lug and extend outwardly at right angles

thereto, substantially as and for the purpose so
specified.

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

WILLIAM H. MILLER.

Witnesses:

S. S. MILLER,

W. A. RICHCREEK.