

G. REISS.

SAW SET.

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978,646.

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Fig. 1.

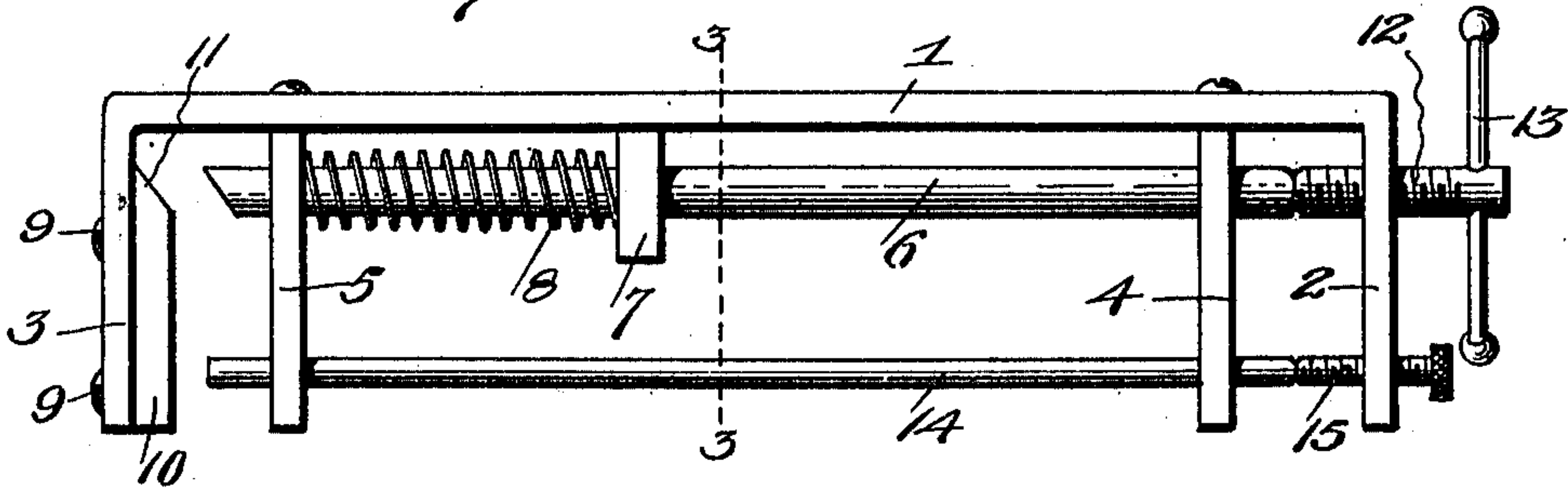


Fig. 2.

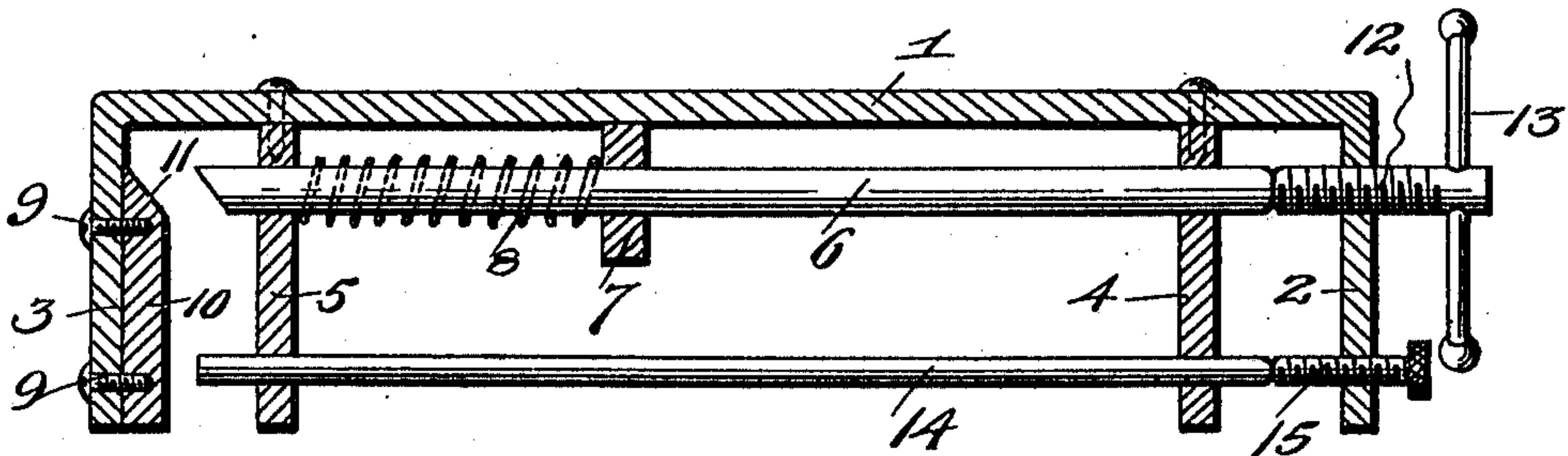


Fig. 3.

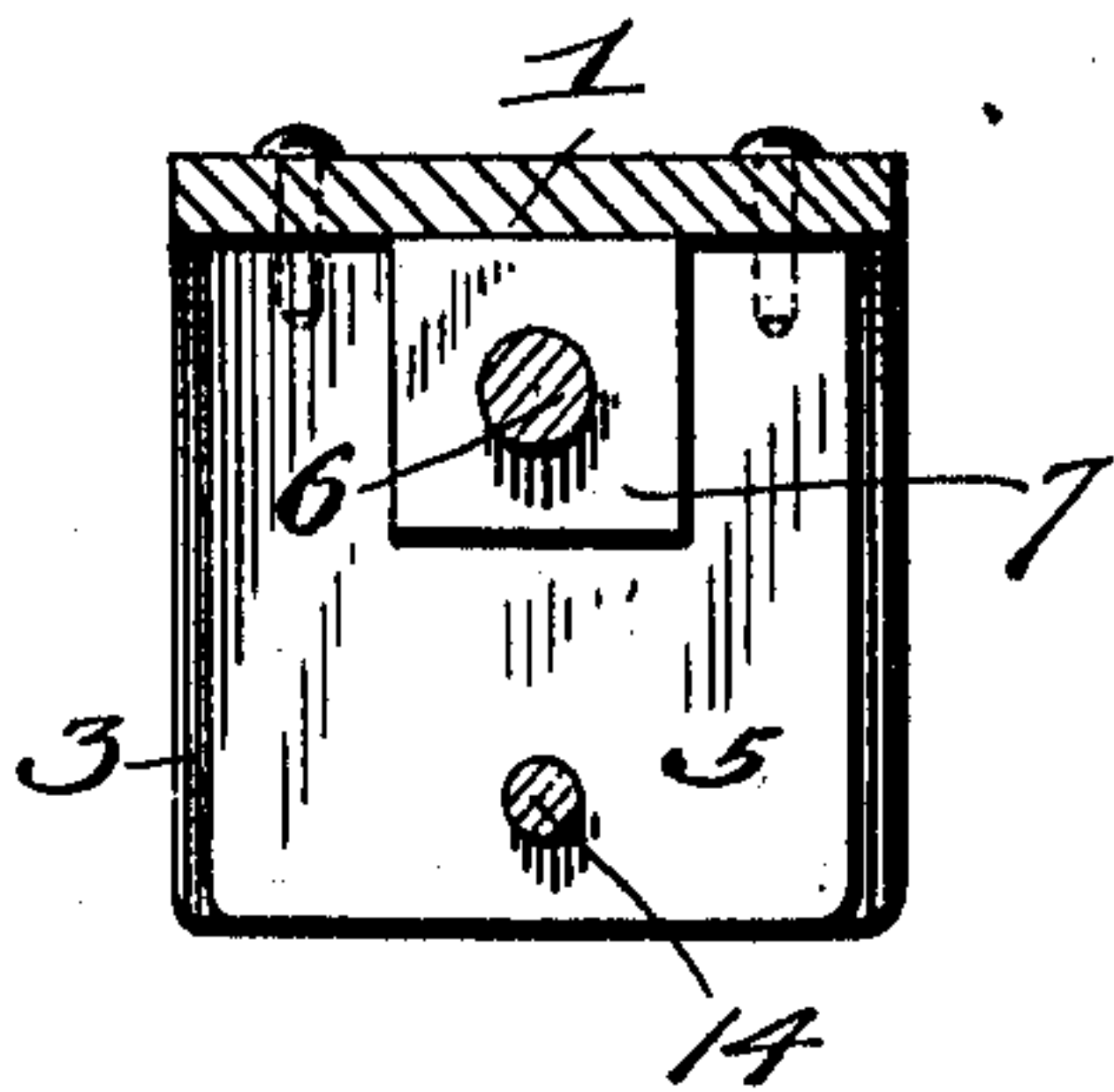
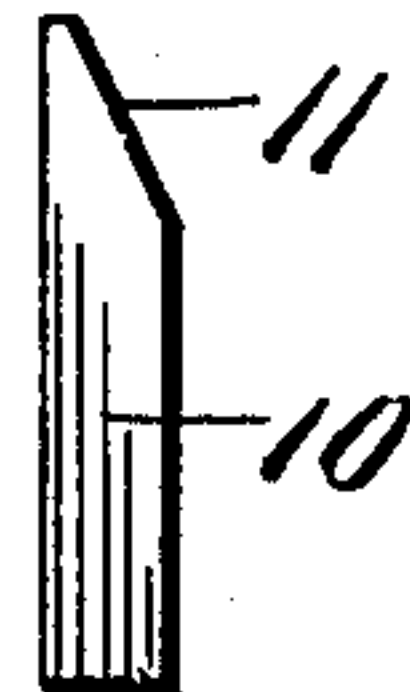


Fig. 4.



Fig. 5.



Witnesses  
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# UNITED STATES PATENT OFFICE.

GUSTAVE REISS, OF CRETE, NEBRASKA.

SAW-SET.

978,646.

Specification of Letters Patent.

Patented Dec. 13, 1910.

Application filed June 13, 1910. Serial No. 566,551.

*To all whom it may concern:*

Be it known that I, GUSTAVE REISS, a citizen of the United States, residing at Crete, in the county of Saline and State of Nebraska, have invented certain new and useful Improvements in Saw-Sets; and I do 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.

This invention relates to improvements in saw sets.

One object of the invention is to provide a saw set having an improved construction of operating or setting mechanism whereby the teeth of large, cross cut or circular saws may be quickly and easily set to the desired inclination.

Another object is to provide an improved means for holding the set in place for operation.

With these and other objects in view the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claim.

In the accompanying drawings: Figure 1 is a side view of my improved saw set; Fig. 2 is a vertical longitudinal sectional view; Fig. 3 is a cross sectional view on the line 3-3 of Fig. 1; and, Figs. 4 and 5 are detail views of the different setting blocks for use in giving the teeth a greater or less set or inclination.

In the embodiment of the invention I provide a frame comprising a supporting bar or plate 1 the opposite ends 2 and 3 of which are bent at right angles to the bar as shown. Secured to the bar or plate 1 of the frame and spaced a suitable distance from and in parallel relation to the ends 2 and 3 are bearing plates 4 and 5. Slidably mounted in the bearing plates 4 and 5 adjacent to the inner side of the bar 1 is a tooth setting plunger 6 one end of which is beveled or inclined at a suitable angle for engaging and setting the teeth. On the plunger 6 a suitable distance from the plate 5 is secured a rectangular block 7 which engages the under side of the plate 1 and prevents the plunger from turning. Said block 7 also forms a stop for one end of a coiled plunger retracting spring 8 which is arranged on the plunger beneath the block and the adjacent bearing plate 5.

Detachably secured to the end 3 of the

frame by screws 9 or other fastening devices is a setting block or anvil 10 having a beveled upper end 11 which is adapted to coact with the beveled end of the plunger 60 for setting the teeth of the saw. I preferably employ a series of setting blocks or anvils 10 the bevel on the upper end of each of which is formed at a different angle thereby providing means for setting the teeth at different angles or to a greater or less degree as may be desired. In the opposite end 2 of the frame and in line with the adjacent end of the plunger 6 is formed a threaded opening with which is engaged 70 a plunger operating screw having therein an operating handle 13 by means of which the screw is adapted to be turned in the threaded aperture of the end 2 whereby when said screw is turned in the proper direction the plunger 6 will be forced into engagement 75 with the saw teeth thereby upsetting the same against the inclined upper end of the anvil or setting blocks. When the screw is turned in the opposite direction the spring 80 8 will retract the plunger 6 thereby permitting the saw to be moved in position for setting the next tooth.

Slidably mounted in suitable bearings formed in the plates 4 and 5 adjacent to 85 their lower ends is a clamping bar 14 which is adapted to be projected to forcibly engage one end thereof against the side of the saw thereby clamping the latter against the adjacent side of the anvil block 10 whereby 90 the set will be held in engagement with the saw while the teeth of the saw are being set. The clamping bar 4 is preferably actuated by means of a bar projecting screw 15 having a threaded engagement with an 95 aperture formed in the end plate 2 of the frame as shown.

From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the 100 invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the 105 principle or sacrificing any of the advantages of this invention as defined in the appended claim.

Having thus described my invention what I claim is:

A saw set comprising a bar having downturned ends, bearing plates secured to said

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bar near said ends, an anvil detachably secured to one end of the bar, a clamping plunger mounted in the bearing plates, a screw mounted in the end of the bar and  
5 bearing against the end of said plunger to project the same toward the anvil to clamp a saw against the anvil, a setting plunger slidably mounted in the bearing plates, an angular projection on the plunger between  
10 the bearing plates and engaging the bar, a spring coiled around the plunger between

said projection and one of the bearing plates, and a screw mounted in the end of the bar and bearing against the end of the plunger.

In testimony whereof I have hereunto set  
my hand in presence of two subscribing witnesses. 15

GUSTAVE REISS.

Witnesses:

ANTON DREDLA,

HERMAN WISSENBERG.