

No. 625,477.

Patented May 23, 1899.

J. C. TAYLOR & E. C. WILSON.

SAW SET.

(Application filed June 16, 1898.)

(No Model.)

Fig. 1.

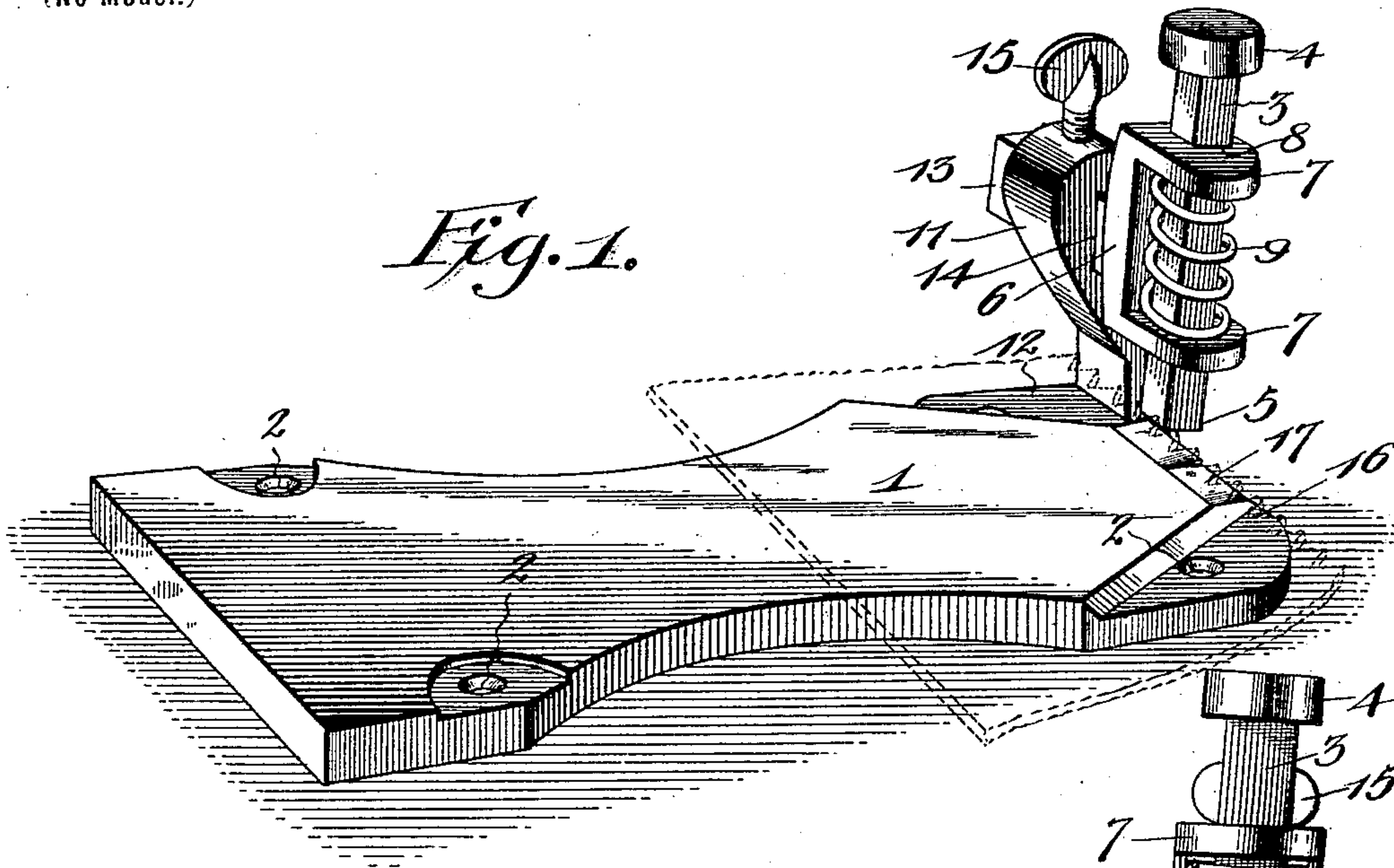


Fig. 2.

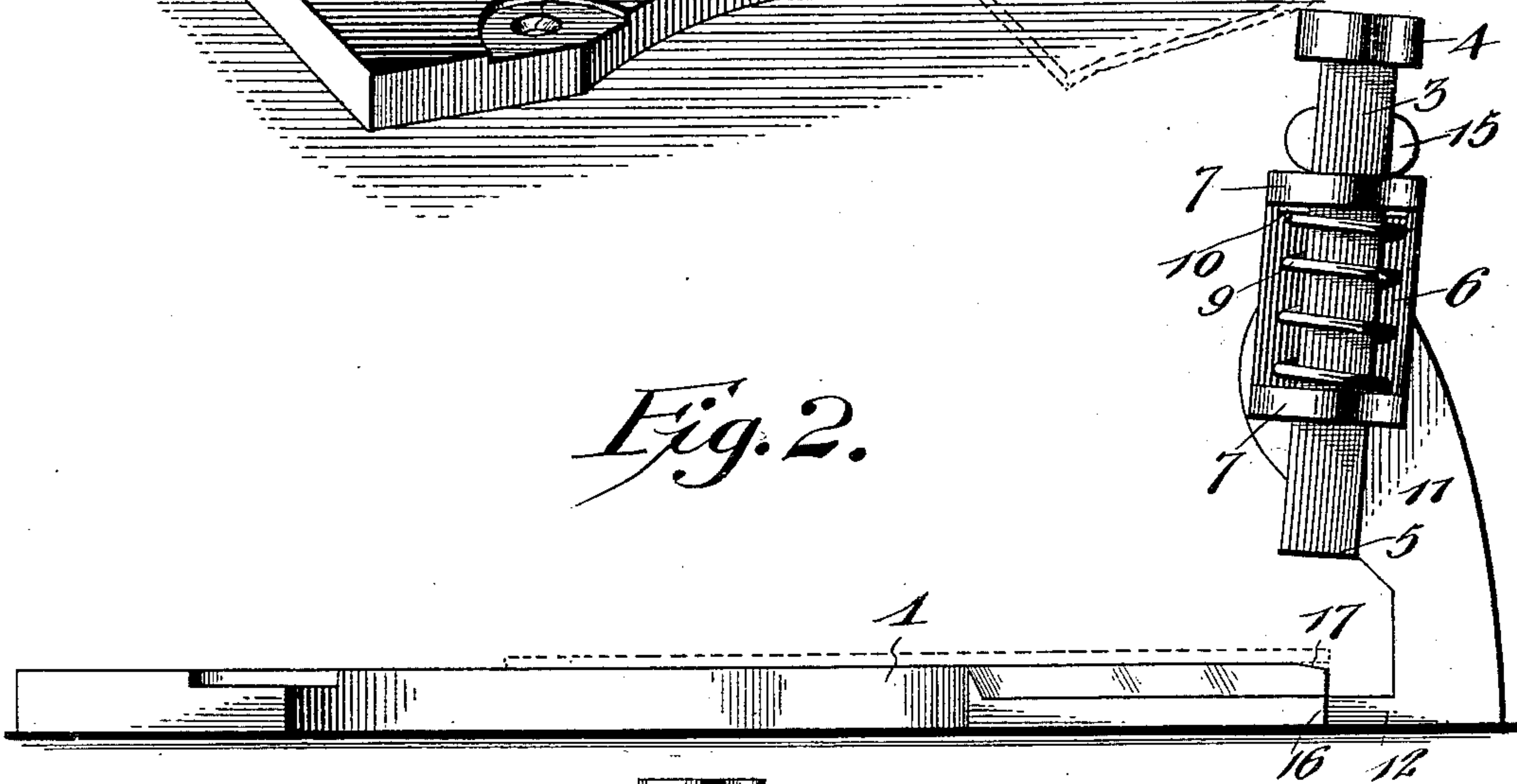


Fig. 3.

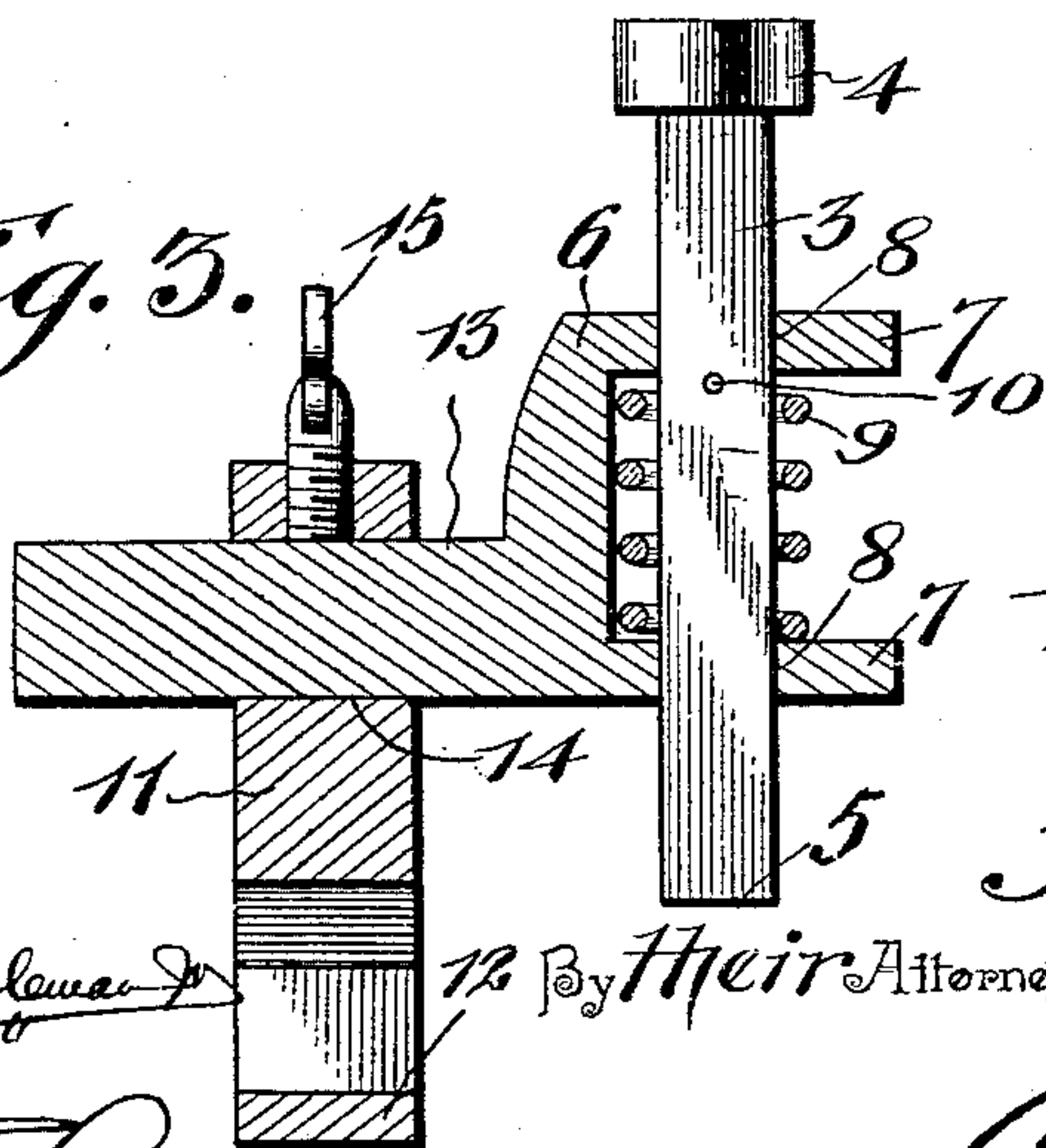
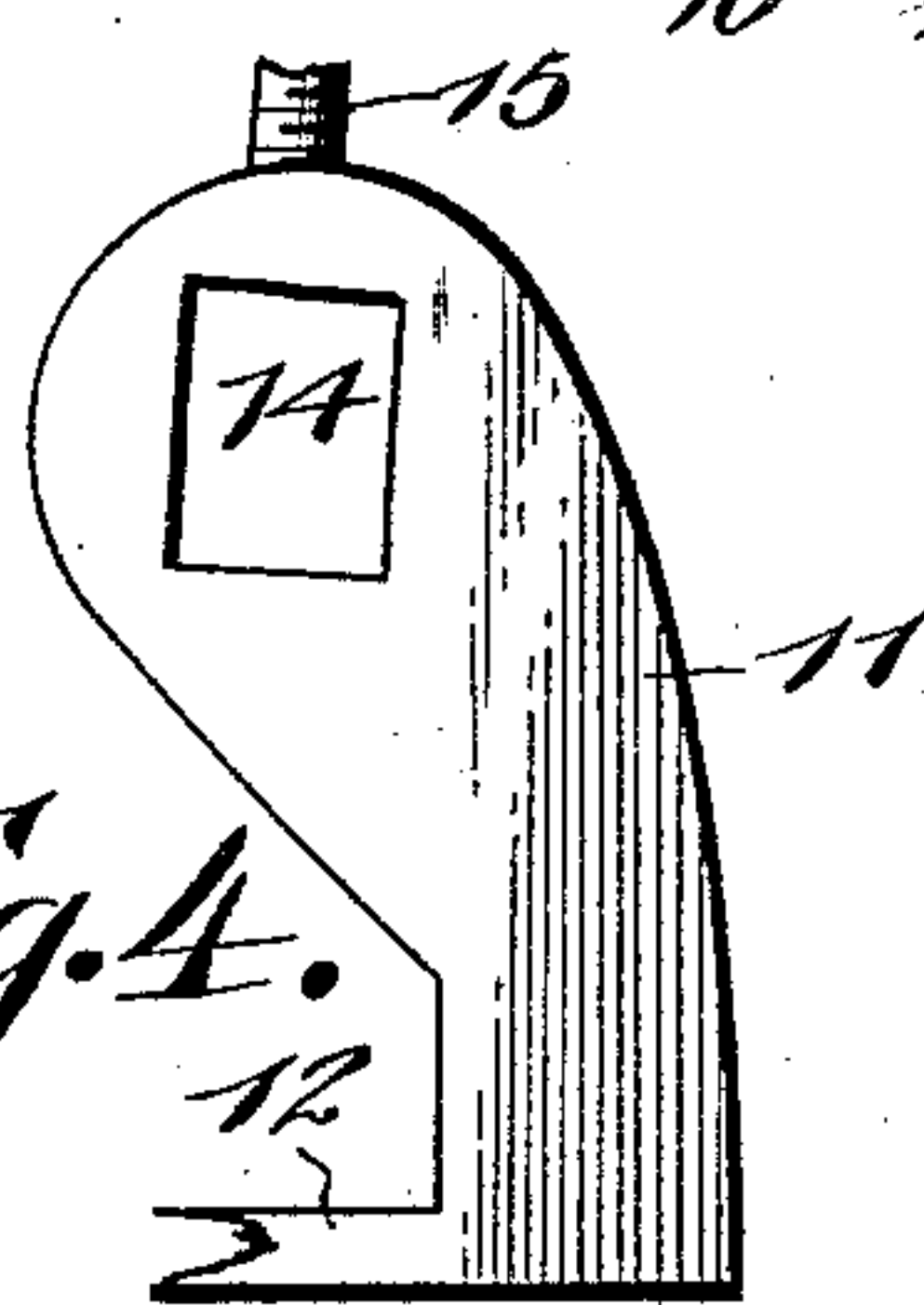


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

JASON C. TAYLOR AND EDWIN C. WILSON, OF FREEPORT, COUNTY OF WOOD, OHIO.

SAW-SET.

SPECIFICATION forming part of Letters Patent No. 625,477, dated May 23, 1899.

Application filed June 16, 1898. Serial No. 683,612. (No model.)

To all whom it may concern:

Be it known that we, JASON C. TAYLOR and EDWIN C. WILSON, citizens of the United States, residing at Freeport, in the county of Wood and State of Ohio, have invented a new and useful Saw-Set, of which the following is a specification.

This invention relates to saw-sets; and the object thereof is to provide a simple and improved device of this character in which the punching-tool is adjustably mounted with respect to a number of die-faces, so that the teeth of saws may be set at different inclinations.

With this object in view the present invention consists in the novel construction and arrangement of parts, as hereinafter more fully described, shown in the drawings, and particularly pointed out in the claims.

In the drawings, Figure 1 is a perspective view of the saw-set. Fig. 2 is a side elevation thereof. Fig. 3 is a vertical sectional view taken transversely through the punch and supporting-arm. Fig. 4 is a detail view of the post or supporting-arm.

Corresponding parts in the several figures are denoted by like characters of reference.

Referring to the drawings, 1 designates a base-plate of suitable size and shape, provided with bolt or screw openings 2, whereby the device is secured upon a support.

The punch 3 is preferably rectangular in cross-section, being provided with a head 4 upon the upper end thereof, and its lower end 5 forming the upper face of the die. This punch is mounted in a yoke or U shaped bracket 6, having arms 7, provided with aligned openings 8, receiving and carrying the punch. A coiled spring 9 is arranged around the body of the punch and between the arms 7, bearing against the lower arm at one end and against a transverse pin or shoulder 10, provided upon the punch, whereby the latter is held normally in an elevated position.

The bracket 6 is supported in a post 11, provided upon an extension 12 of the base, by means of an arm 13, preferably formed integral with the bracket. This arm is adjustable within an opening 14, provided through the post 11, and is secured therein at any desired adjusted position by means of a set-

screw 15. The opening 14 is preferably rectangular and the arm 13 of a similar shape, so as to hold the bracket always in its proper position and prevent turning thereof. This opening is arranged at an angle, as shown in Fig. 4, so as to dispose the bracket and punch at an inclination to the base for a purpose hereinafter more fully described.

The front end 16 of the base 1 is preferably straight, as shown, and beveled or inclined downwardly, as at 17, forming the lower die-face. A number of differently beveled or inclined faces 17 are formed in order to provide means whereby the teeth of the saws may be set at different angles.

In the operation of the device the saw-blade is placed flat upon the base and arranged transversely thereof, as indicated in dotted lines, Figs. 1 and 2, with the teeth over the beveled faces 17. The arm 13 is then adjusted through the post 11, as heretofore described, until the punch 3 is arranged over the desired face 17, when the set-screw 15 is tightened and the punch thus securely held in position, and a sharp blow with a hammer is struck upon the head 4, forcing the punch down against the tooth, and thus setting the same to the desired angle in the die formed between the beveled face 17 and the lower end of the punch.

The object of disposing the punch at an angle to the base of the device is to allow the die-face 5 of the punch to engage more evenly with the die-face 17 on the base, and thus more effectually set the tooth.

The post 11 is preferably set beyond the end of the base in order to permit an unobstructed adjustment of the saw transversely of the base-plate.

The improved saw-set as herein described presents an exceedingly simple and effective device composed of few parts, which can be quickly and easily assembled together for use, any of which can be replaced if broken or lost. The dies 17, being an integral portion of the base, are always firm and not capable of becoming loosened by use, and when the punch is adjusted they are in the correct position for operation.

The device is also capable of various changes in its form, proportion, and minor details

without departing from the spirit and scope or sacrificing any of the advantages thereof, and therefore we do not wish to be understood as limiting ourselves to the precise construction and arrangement as herein described.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

10 1. In a saw-set, the combination with a base having a series of different transversely-aligned fixed die-faces, of a punch having an adjustment longitudinally of the series of die-faces, whereby the punch may be set to coöperate
15 with any of the individual die-faces, substantially as shown and described.

2. In a saw-set, the combination with a base having a plurality of different fixed transversely-aligned die-faces, of a punch, a support provided upon the base and adjustably
20 carrying the punch, and means for locking the punch upon the support when adjusted to coöperate with any desired die-face, substantially as shown and described.

25 3. In a saw-set, the combination with a base having a plurality of different aligned fixed die-faces, of a punch, a yoke or bracket having an arm and carrying the punch, and a support having a set-screw, the bracket being
30 adjustable longitudinally of the die-faces, and the set-screw adapted to engage the arm and lock the bracket and punch when the latter is adjusted to coöperate with any desired die-face, substantially as shown and described.

35 4. In a saw-set, the combination with a base having different die-faces, of a punch, a yoke or bracket carrying the punch and provided with an arm, a post provided upon the base and formed with an opening therein, the said
40 arm being slidably mounted in the opening, whereby the punch may be adjusted to coöperate with any of the die-faces, substantially as and for the purpose set forth.

45 5. In a saw-set, the combination with a base having differently-inclined die-faces, of a

punch, and a yoke or bracket carrying the punch and provided with an arm, a post or support for the bracket, formed upon the base and provided with an opening arranged at an inclination to the base, the said arm being
50 slidably mounted therein, whereby the punch is adjustable with relation to the individual die-faces and is disposed at an angle to the base, substantially as shown and described.

6. In a saw-set, the combination with a base
55 having different die-faces, of a punch, a bracket carrying the punch and having an arm, and a support slidably receiving the arm, the punch being arranged at an inclination to the base, substantially as and for the purpose set forth.

7. In a saw-set, the combination with a base having different die-faces, of a punch, a bracket slidably carrying the punch and having an arm, and a support slidably receiving
65 the arm, whereby the punch may be adjusted to coöperate with any of the die-faces, substantially as shown and described.

8. In a saw-set, the combination with a base, having different die-faces, of a punch, a
70 bracket carrying the punch and provided with an arm, and a support having an opening formed therein at an inclination to the base and adapted to receive the arm of the bracket, substantially as shown and described.

9. In a saw-set, the combination of a base, an aligned series of different die-faces, provided upon the base, and a punch supported over the die-faces and having an adjustment
75 for the entire length of the series of die-faces, to coöperate with any one thereof, substantially as shown and described.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

JASON C. TAYLOR.
EDWIN C. WILSON.

Witnesses:

E. E. FRISBIE,
HARRY L. MESSER.