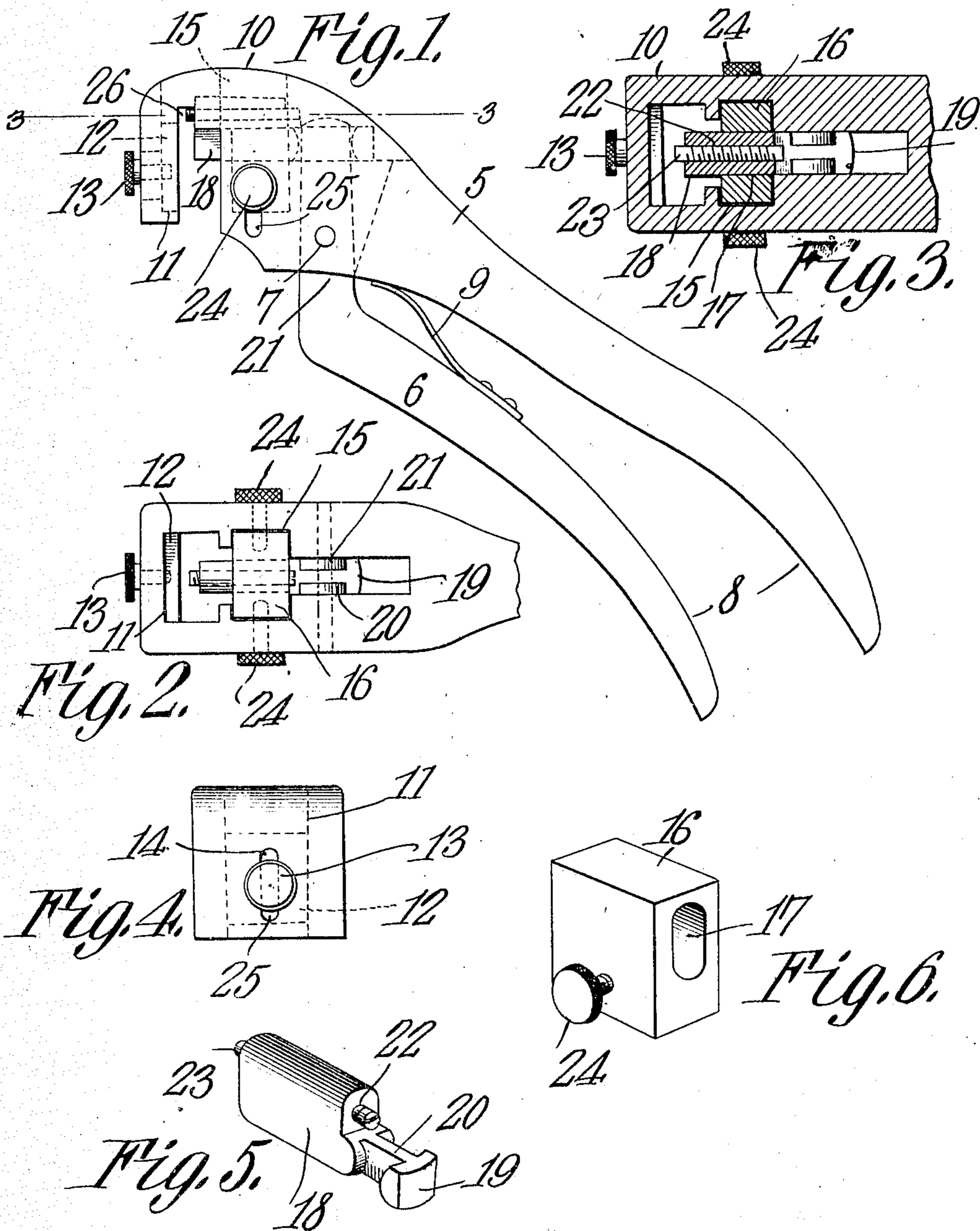


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PATENTED JULY 16, 1907.

J. H. WAGNER.
SAW SET.

APPLICATION FILED APR. 18, 1907.



WITNESSES:

E. H. Wagner
S. P. Munn

John H. Wagner
INVENTOR.

By *C. A. Snow & Co.*
ATTORNEYS

UNITED STATES PATENT OFFICE.

JOHN H. WAGNER, OF DAVID CITY, NEBRASKA.

SAW-SET.

No. 860,971

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN H. WAGNER, a citizen of the United States, residing at David City, in the county of Butler and State of Nebraska, have invented a new and useful Saw-Set, of which the following is a specification.

This invention relates to saw-sets and has for its object to provide a comparatively simple and inexpensive tool of this character by means of which the teeth of a saw may be conveniently and accurately set.

A further object of the invention is to provide a saw-set having an adjustable slide provided with a transverse opening for the reception of the plunger whereby the latter may be adjusted vertically to vary the slant or set of the saw-teeth.

A further object is to provide means for adjusting the anvil with respect to the plunger, and means for locking the anvil in adjusted position.

A still further object of the invention is to generally improve this class of devices so as to increase their utility, durability and efficiency.

Further objects and advantages will appear in the following description, it being understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims.

In the accompanying drawings forming a part of this specification: Figure 1 is a side elevation of a saw-set constructed in accordance with my invention. Fig. 2 is a top plan view of the same. Fig. 3 is a transverse sectional view taken on the line 3—3 of Fig. 1. Fig. 4 is a front elevation. Fig. 5 is a detail perspective view of the plunger. Fig. 6 is a similar view of the plunger carrying block or slide.

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

The improved device consists of relatively stationary and movable members 5 and 6 pivotally united at 7 and provided with terminal operating handles 8, there being a spring 9 interposed between the handles 8 for normally holding the free ends of said handles in spaced relation.

The stationary member 5 is provided with an enlarged head 10 having a vertically disposed recess 11 formed therein for the reception of a vertically adjustable plate or anvil 12. The anvil 12 bears against the adjacent wall of the recess 11 and is locked in adjusted position by means of a set screw 13 which extends through an elongated slot 14 formed in the front face of the tool, as shown. The head 10 is also pierced by a

vertical opening 15 in which is mounted a slide or block 16, the latter being provided with a transverse recess 17 for the reception of a sliding plunger 18.

The plunger 18 is provided with a reduced extension 19 having oppositely disposed slots 20 formed therein for the reception of the spaced arms 21 of the movable member 6 so that when the handles 8 are pressed together against the tension of the spring 9, the plunger 18 will be reciprocated within the slide 16. The plunger 18 is provided with a longitudinal bore 22, the walls of which are threaded for the reception of a longitudinally adjustable hammer or pin 23 adapted to bear against the saw-teeth and force said teeth against the upper edge of the anvil 12 and thereby slant or set said teeth.

The block or slide 16 is slidably mounted in the opening 15 so that the hammer 23 may be adjusted with respect to the anvil 12 and thus vary the inclination or set of the saw-teeth. The slide 16 is locked in adjusted position by means of suitable clamping screws 24 the enlarged heads of which extend through slots 25 formed in the side walls of the head 10 and bear against said walls when the clamping screws are tightened so as to prevent accidental movement of the slide.

The side walls of the head 10 are formed with alined recesses 26 so that the toothed edge of the saw may be positioned against the adjacent face of the anvil 12 when using the tool. Attention is here called to the fact that the recesses 11 and 15 open through the top of the head 10 so that the hammer or pin 23 may be adjusted longitudinally of the plunger without the necessity of removing said plunger or pin from the head.

In using the device the saw is positioned in the recesses 26 with one side thereof bearing against the anvil 12 and with the teeth disposed at the upper edge of said anvil. The handles 8 are then pressed together which causes the hammer 23 to bear against the adjacent saw tooth and bend the same over the upper edge of the anvil thus giving the tooth the desired slant or set.

In order to adjust the hammer to accommodate saw-teeth of different lengths the clamping screws 24 are released and the slide 16 adjusted vertically of the head to the desired position after which the screws are tightened thereby locking the plunger in adjusted position. The anvil 12 may also be adjusted with respect to the plunger by manipulating the clamping screw 13 in the manner before described.

From the foregoing description it will be seen that there is provided an extremely simple, inexpensive and efficient device admirably adapted for the attainment of the ends in view.

Having thus described the invention what is claimed is:

1. A saw-set including pivotally united members, a slide adjustable vertically on one of the members, a plunger carried by the slide and operatively connected with the adjacent member, an anvil spaced from the plunger, a hammer carried by said plunger, and means for locking the slide in adjusted position.
2. A saw-set including pivotally united members one of which is provided with an opening, a block slidably mounted in said opening and provided with a recess, a plunger movable within the recess and operatively con-

nected with the adjacent member, an anvil spaced from the plunger, a hammer carried by the plunger and co-acting with the anvil, and clamping members extending through the walls of the opening and engaging the block, there being elongated slots formed in said walls for the reception of the clamping members.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOHN H. WAGNER.

Witnesses:

ORVAL L. MCCrackEN,
FRANK SELLHOFF.