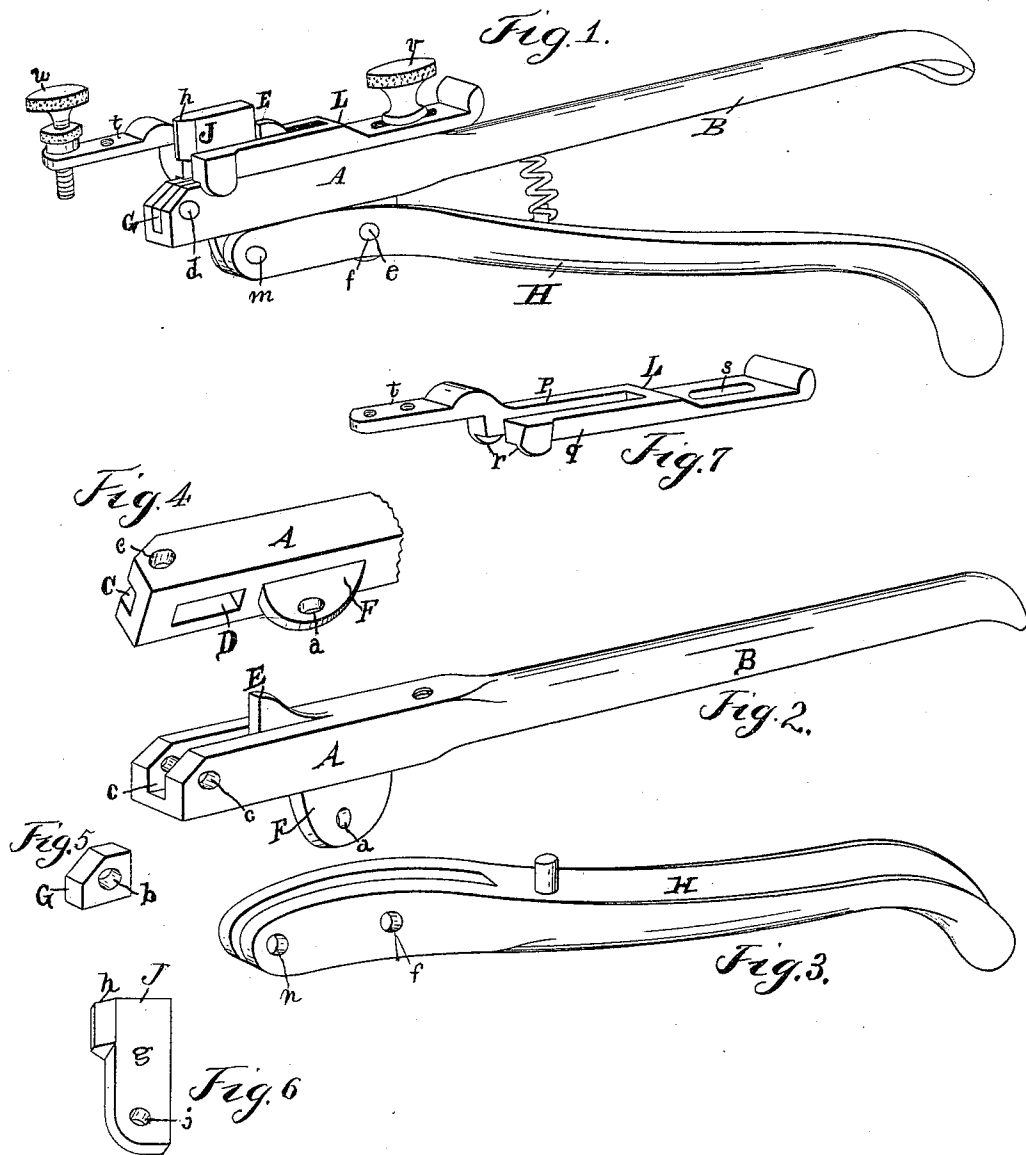


(No Model.)

A. FAGER.
SAW SET.

No. 447,722.

Patented Mar. 3, 1891.



WITNESSES:
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UNITED STATES PATENT OFFICE.

ANTHONY FAGER, OF CANTON, OHIO, ASSIGNOR TO ISAAC HARTER AND
F. E. KOHLER, BOTH OF SAME PLACE.

SAW-SET.

SPECIFICATION forming part of Letters Patent No. 447,722, dated March 3, 1891.

Application filed August 15, 1890. Serial No. 362,126. (No model.)

To all whom it may concern:

Be it known that I, ANTHONY FAGER, a citizen of the United States, and a resident of Canton, county of Stark, State of Ohio, have
5 invented a new and useful Improvement in Saw-Sets, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification.

10 My invention relates to an improvement in saw-setting devices; and it consists in certain features of construction and combination of parts, as will be hereinafter described, and pointed out in the claim.

15 Figure 1 of the accompanying drawings is a view in perspective of a saw-set, illustrating my invention; Fig. 2, a similar view of the body and handle; Fig. 3, a similar view of the hand-lever by which the setting-die is
20 operated; Fig. 4, a similar view of the body portion, showing the under side; Fig. 5, a similar view of the anvil; Fig. 6, a similar view of the die, and Fig. 7 a similar view of the gage.

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

A represents the body portion of the tool, and B the handle.

30 The body portion is provided with a groove C, an elongated aperture D, an upwardly-projected brace or die support E, and a downwardly-projected lug F, having an aperture *a*.

35 The anvil G is made of hardened steel, having an aperture *b* to correspond with apertures *c* in the body A. The anvil G is placed in the groove C and secured therein by a removable pin *d*.

40 A hand-lever H is provided by which the die J is actuated, said lever having one of its ends bifurcated, as shown in Fig. 3. The prongs thus formed are pivotally secured to the lug F by a removable-pin *e*, passed through
45 the perforations *f* and *a*.

The die J is made of steel and formed as shown in Fig. 6, the body portion *g* of an even thickness throughout its length and of such width as may be desired. On the front

upper edge portion of the body is an outwardly-projected V-shaped nose-piece *h*, and at the lower end of the die is provided an aperture *j*. A plurality of dies may be provided, each of which may have a nose-piece adapted to some particular gage of saw-tooth,
55 by which means the set may be adapted to set the teeth of the smallest tenon or largest hand rip-saws. It will be noticed that this form of dies can be made at a trifling cost and tempered or hardened without loss from
60 crack or breakage in hardening, which is a matter of great importance to the manufacturer as well as to the user of such tools. The die is passed down through the aperture D and pivotally secured to the forward end
65 portion of the lever H by the removable pin passed into the apertures *n* and *j*. To throw the lever H apart from the handle B, a coil-spring K is placed, as shown, between the handle and the lever, the energy of the spring
70 exerted to push or throw the lever down from the handle and the die up, as shown in Fig. 1, and the nose above the anvil and the back of the die against the support E, by which it is supported vertically and against a rearward
75 movement, thus securing a vertical movement of the die on the saw-tooth.

A gage L is provided of the form shown in Fig. 7, bifurcated at one of its ends, the prongs *p* and *q* having downwardly-projected flanges
80 *r*, that embrace the sides of the body A, an elongated aperture *s*, and a forward-projected portion *t*, having therein a set-screw *u*, as shown in Fig. 1. The gage is placed upon the body portion, as shown, the prongs *p* and
85 *q* embracing the die and the die-support, the flanges *r* embracing the body and is adjustably secured to the body of the screw *v*.

In operation the gage is set to the saw-tooth and the set of the saw-tooth by the
90 screw *u*. The movement of the lever H toward the body A will draw the die down, bending the tooth down flat upon the anvil.

Having thus fully described the nature and object of my invention, what I claim as new,
95 and desire to secure by Letters Patent, is—

The combination, with the handle B, the head A of which is provided with a longi-

5 tudinal groove, a vertical aperture, a die-support E, and a depending lug F, of an anvil secured in the longitudinal groove, a die having its lower end projecting through the vertical aperture, a lever H, pivotally secured to the lug F and to the lower end of the die, and a gage, substantially as set forth.

In testimony whereof I have hereunto set my hand this 21st day of July, A. D. 1890.

ANTHONY FAGER.

Witnesses:

W. K. MILLER,

ATLEE POMERENE.