

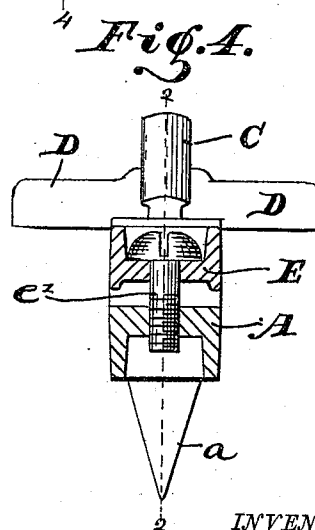
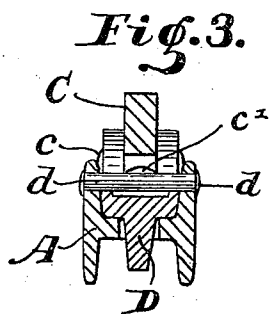
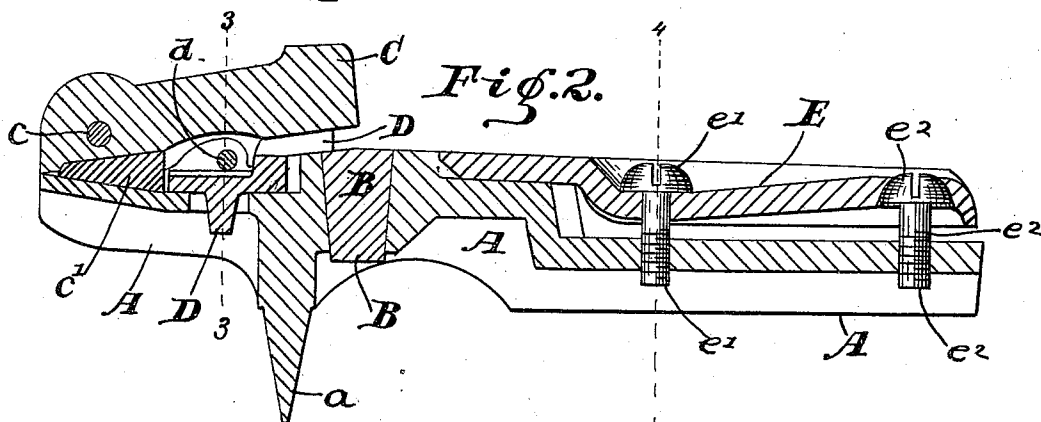
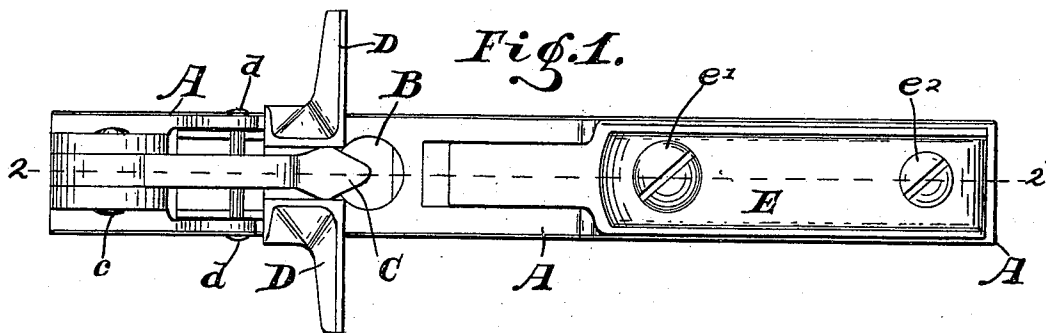
(No Model.)

R. E. POINDEXTER.

SAW SET.

No. 346,944.

Patented Aug. 10, 1886.



WITNESSES.

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UNITED STATES PATENT OFFICE.

ROBERT E. POINDEXTER, OF INDIANAPOLIS, INDIANA.

SAW-SET.

SPECIFICATION forming part of Letters Patent No. 346,944, dated August 10, 1886.

Application filed February 19, 1886. Serial No. 192,569. (No model.)

To all whom it may concern:

Be it known that I, ROBERT E. POINDEXTER, of the city of Indianapolis, county of Marion, and State of Indiana, have invented certain new and useful Improvements in Saw-Sets, of which the following is a specification.

My said invention belongs to that class of saw-sets known as "hammer-sets," wherein the tooth of a saw is set by adjusting the parts to the desired position, placing the tooth between an anvil and die and striking the die with a hammer; and it consists in the construction and arrangement of parts hereinafter more particularly described and claimed.

Referring to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts, Figure 1 is a top or plan view of my improved set; Fig. 2, a longitudinal central vertical section thereof on the dotted line 2 2 in Fig. 1; Fig. 3, a transverse vertical sectional view, looking toward the left from the dotted line 3 3 and Fig. 4, a similar view; as seen from the dotted line 4 4.

In said drawings, the portions marked A represent the main casting or frame of the set; B, the anvil; C, the die; D, a guide, and E the adjustable support for the saw-blade.

The main portion A is of the form shown in the drawings, and is adapted to support the other portions of the implement. It has a point, *a*, which may be driven into a log or block of wood to hold the set in position, and has the various bearings and openings necessary to receive the other parts. It is preferably formed of malleable iron, as this is a cheap, tough, and well-adapted material for this purpose.

The anvil B is preferably formed of steel and set into the main portion A directly at the point where the force of the blow from the die comes, as shown.

The die C is mounted on a pivot, *c*, in bearings in the main portion A, and extends forward to just above the anvil B. Its forward portion is formed pointed to conform to the shape of the saw-tooth. It is mounted upon and partially incloses a spring, *c'*, preferably of rubber, which throws it up free from the anvil when not under the force of a blow or pressure from above.

The guide D rests in a suitably-formed re-

cess in the top of the part A below the die C, and is held therein by a rivet, *d*, and the formation of itself and said part A. Its face is made smooth, and is preferably case-hardened to resist wear. It may be adjusted back and forth slightly to accommodate itself to the various-sized teeth to be set. It is formed with upwardly-extending sides or cheeks, between which the die C passes, and which form a guide for said die.

The adjustable saw-support E is secured to the part A by two screws, *e'* *e'*, and a recess in the part A, into which its forward portion enters. It rests at the rear end upon one of these screws *e'*, and the screw *e'* passes down through it. By this arrangement, after loosening the screw *e'*, its rear end can be raised by turning the screw *e'* in one direction, and thus the set will be arranged to set the saw lightly. When a heavier set is required, the screw *e'* is turned down and the screw *e'* turned down to follow it, drawing this plate down tightly against the head of said screw *e'* and to the bottom of the recess in the part A formed to receive its forward end. When saws having handles which project somewhat beyond their cutting portion are being set—as handsaws—this plate E can be removed altogether by taking out the screws, and the handle may then pass the other portions of the device and permit the teeth alongside the handle to be set.

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

1. In a saw-set, the guide D, mounted in a recess in the top of the main portion of said set and secured in position by its own formation, and a rivet, *d*, the sides of said guide being formed to extend up on each side of the pivoted die, whereby said sides are adapted to act as a guide for said die in its vertical movements, substantially as set forth.

2. In a saw-set, the support E, mounted in a recess in the rear part of the main portion of said set and secured in position by the screws *e'* *e'*, one of which passes through said support, and the other of which bears against its under side, whereby said support may be adjusted to and secured in any desired position, substantially as set forth.

3. In a saw-set, a guide mounted in a recess

in the front part of the main portion and
formed to extend up on each side of the piv-
oted die, and a saw-support adjustably secured
in a recess in the rear portion of said main por-
5 tion by screws, one of which bears against
the under and one against the top side of
said support, whereby a set is provided, the
pivoted die of which will be steadied and
guided in its movements, and one whereon the

saw may be supported at any desired eleva- ro
tion, substantially as set forth.

In witness whereof I have hereunto set my
hand and seal at Indianapolis, Indiana, this
16th day of February, A. D. 1886.

ROBERT E. POINDEXTER. [L. S.]

In presence of—

C. BRADFORD,

CHARLES L. THURBER.