W. H. SMERDON & B. F. PHILLIPS.

SAW-SET.

No. 190,521. Patented May 8, 1877.

Fig: 1.

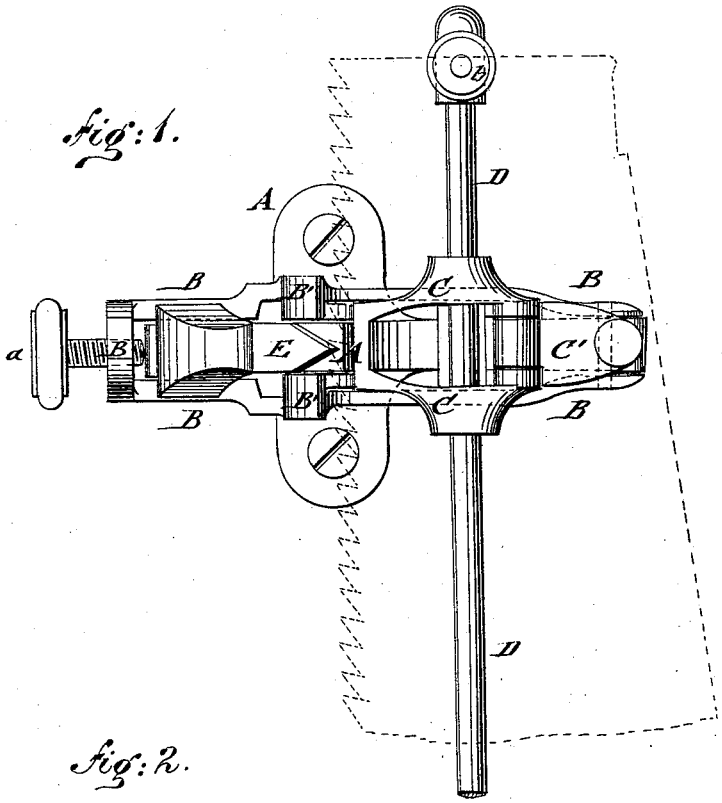


Fig: 2.

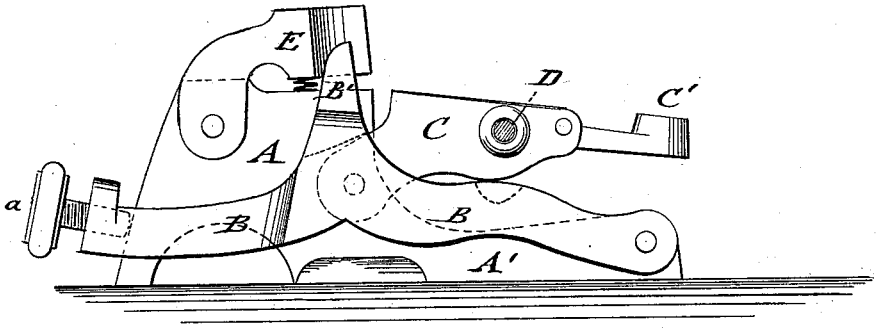
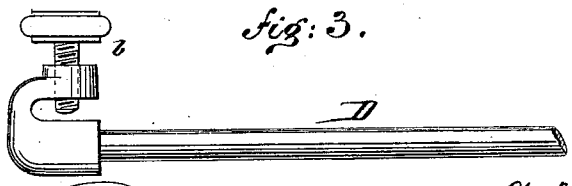


Fig: 3.



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UNITED STATES PATENT OFFICE.

WILLIAM H. SMERDON AND BAYLIES F. PHILLIPS, OF TAUNTON, MASS.

IMPROVEMENT IN SAW-SETS.

Specification forming part of Letters Patent No. **190,521**, dated May 8, 1877; application filed March 24, 1877.

To all whom it may concern:

Be it known that we, WILLIAM H. SMERDON and BAYLIES F. PHILLIPS, of Taunton, in the county of Bristol and State of Massachusetts, have invented a new and Improved Saw-Set, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a top view, and Fig. 2 a side view, of our improved saw-set; Fig. 3, a side view of the saw-steadying rod and clamp.

Similar letters of reference indicate corresponding parts.

The invention will first be described in connection with the drawing, and then pointed out in the claims.

In the drawing, A represents a supporting-block or anvil, that is fastened by screws to a bench or other support, and is provided with a fixed forward-extending arm, A′, to which the forked gage B is pivoted, the same extending back at both sides of the anvil, being closed back of the same, and held when adjusted to greater or less height along the same by a set-screw, *a*.

The gage B has arms B′, that extend at both sides and above the level of the anvil, the faces of the extension-arms B′ being carried closer to or farther from the front edge of the anvil, according as the rear end with the set-screw is raised or lowered, the gage B being thus set to larger or smaller sizes of the saw-teeth.

To the supporting-block A is pivoted, below the extensions B of the gage, a forked bevel-plate, C, that rests on the front part of the gage, and is adjusted simultaneously with the same to a greater or smaller angle of inclination toward the anvil, according to the size of the teeth.

A longitudinal rod, D, passes through a guide-hole of the bevel-plate, and is attached by a clamp-screw, *b*, at its U-shaped end to the saw, so as to support the same at its extremity. The guide-rod D may be made of sufficient length to support any of the saws used by carpenters and joiners.

When the gage and bevel-plate are adjusted and held in position by the rear thumb-screw, the saw is placed on the bevel-plate, and the rod moved back close to the bevel-plate and fastened to the saw end by its clamp-screw. The saw is then moved forward with one hand, while the other hand strikes with a hammer on the pivoted and spring-acted set-piece E of the anvil, until one-half of the teeth are set to one side. The saw and rod are then reversed and the intermediate teeth set in the same manner as before.

For wide saws the arm or apron C′ is turned outwardly, so as to obtain more surface or bearing for the saw, which is quickly and conveniently set by the simple and easily adjusted and operated device.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. A saw-set consisting of an anvil with pivoted and spring-acted set-piece, and of gage and bevel-plate, jointly adjustable, substantially in the manner and for the purpose set forth.

2. The combination of the forked gage, pivoted to the front arm of the anvil-block, and of a bevel-plate, pivoted to supporting-block A, with fixed anvil to produce simultaneous adjustment of gage and bevel to saw-teeth, substantially as set forth.

3. The bevel-plate having pivoted arm or apron, that may be folded inward or thrown outward, as required, substantially as specified.

WILLIAM HENRY SMERDON.
BAYLIES FRANKLIN PHILLIPS.

Witnesses:
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