

C. T. SHOEMAKER.

Device for Setting Saws.

No. 133,727.

Patented Dec. 10, 1872.

FIG. 1.

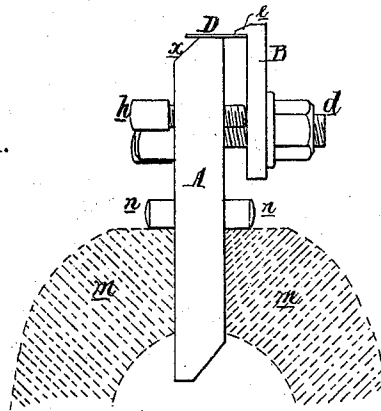
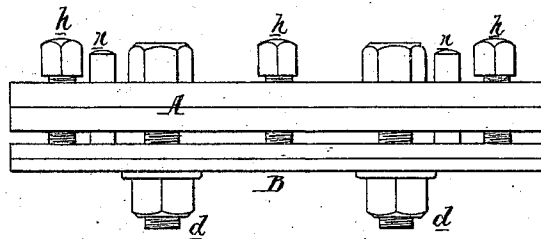


FIG. 2.



WITNESSES. *Thomas McElvain*
Harry Smith.

Charles T. Shoemaker,
By his atty
Harrison and Low

UNITED STATES PATENT OFFICE.

CHARLES T. SHOEMAKER, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR
TO HENRY DISSTON & SON, OF SAME PLACE.

IMPROVEMENT IN DEVICES FOR SETTING SAWS.

Specification forming part of Letters Patent No. 133,727, dated December 10, 1872.

To all whom it may concern:

Be it known that I, CHARLES T. SHOEMAKER, of the city and county of Philadelphia, State of Pennsylvania, have invented an Improvement in Saw-Setting Anvils, of which the following is a specification:

The object of my invention is to afford facilities for setting the teeth of narrow saw-blades without displacing and distorting the same.

I attain this object by combining with the usual saw-setting anvil A, shown in the side view, Figure 1 of the accompanying drawing, and in the plan view, Fig. 2, a guard-plate, B, which determines the extent to which the toothed edge of the narrow saw-blade D shall overhang the usual beveled edge *x* of the anvil, against which edge the teeth are struck with a hammer, while the blade is prevented from tilting by a lip, *e*, on the upper edge of the guard-plate B.

There is no difficulty in maintaining comparatively wide saw-blades in their proper position on the anvil during the process of setting the teeth; but with narrow blades, such as those of gig-saws, the case is different, for considerable difficulty is experienced in keeping such blades on the anvil, and in preventing the blows of the hammer from striking the body of the blade and distorting the same; hence my invention, which overcomes these difficulties.

The guard-plate B is, in the present instance, secured to the anvil-plate by bolts *d d*, the distance apart between the two plates being determined by the set-screws *h h h*, which pass through the anvil-plate A and bear with their ends against the plate B. Suitable packing-pieces may however be substituted for the set-screws for maintaining the plates

at the proper distance apart to accord with the width of the blade to be operated on, and it is immaterial what appliances are used for securing the two plates together. When the instrument is secured by and between the jaws *m m* of a vise, on which the pins *n n* of the anvil-plate bear, it is ready for use, the saw-blade D, with its rear edge against the guide-plate and overlapped by the lip *e*, being traversed longitudinally while tooth after tooth is struck by the hammer, the blows of which cannot tilt or displace the blade or cause it to deviate in any way from its proper course.

I prefer to make the anvil-plate in such a manner that it can be reversed. In Fig. 1, for instance, the under edge of the anvil is adapted to the setting of the teeth of a narrower blade than the upper edge, so that when a narrow blade has to be operated on all that is necessary is to reverse the anvil and also the guard-plate, the anvil having proper holes for receiving the bolts *d d* when the positions of the latter are changed to accord with the reversed position of the guard-plate.

I claim as my invention—

The within-described instrument, composed of the anvil-plate A and guard-plate B, and the appliances herein described, or their equivalents, for maintaining the two plates in their proper relative position.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

C. T. SHOEMAKER.

Witnesses:

WM. H. WRIGHT,
J. SHERBORNE SINGER.