(No Model.)

C. REICHERT.

SAW FILING GUIDE.

No. 584,520. Patented June 15, 1897.

Fig. 1.

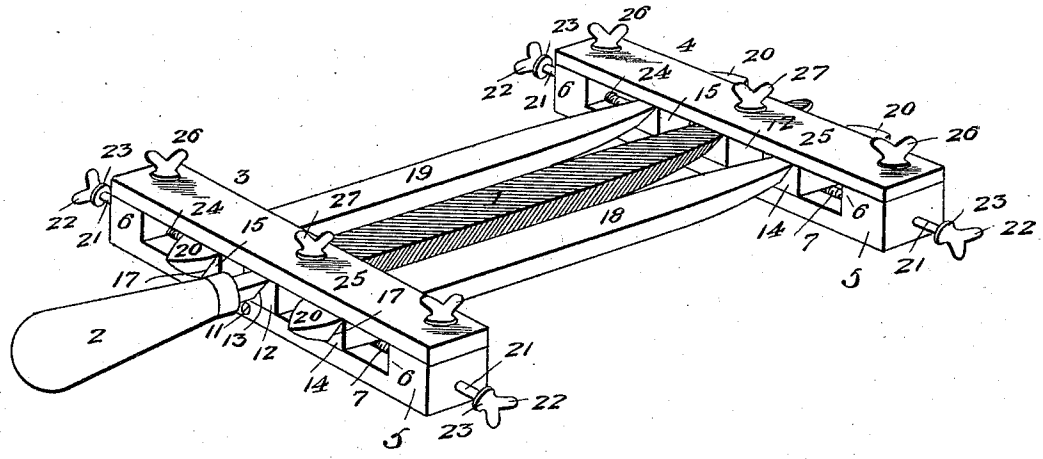


Fig. 2.

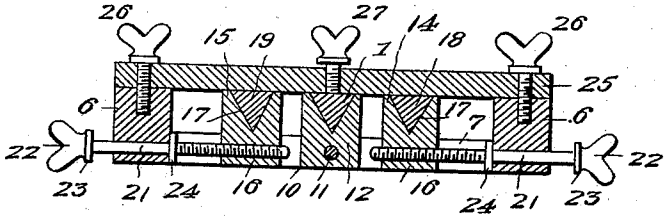
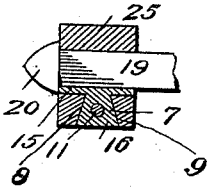


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES REICHERT, OF CHESTER, PENNSYLVANIA.

SAW-FILING GUIDE.

SPECIFICATION forming part of Letters Patent No. 584,520, dated June 15, 1897.

Application filed March 16, 1897. Serial No. 627,754. (No model.)

To all whom it may concern:

Be it known that I, CHARLES REICHERT, a citizen of the United States, residing at Chester, in the county of Delaware and State of Pennsylvania, have invented certain new and useful Improvements in Saw-Filing Guides; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has relation to adjustable saw-filing guides; and the object is to provide a simple, cheap, and effective device for guiding the file while sharpening an ordinary handsaw.

To this end the novelty consists in the construction, combination, and arrangement of the same, as will be hereinafter more fully described, and particularly pointed out in the claims.

In the accompanying drawings the same reference-characters indicate the same parts of the invention.

Figure 1 is a perspective view of my adjustable saw-filing guide as it appears in operation. Fig. 2 is a longitudinal section through one of the clamps, and Fig. 3 is a transverse section of the same.

1 represents an ordinary three-cornered file provided with the usual handle 2.

3 and 4 represent adjustable parallel clamps, and as they are identical in construction the description of one will answer for both. These clamps comprise a frame 5, formed with integral stationary blocks 6 6, and a longitudinal slot 7, having converging walls 8 9.

10 represents an enlarged rectangular recess formed midway in the frame 5, and in it is detachably secured by a screw 11 a stationary jaw 12, provided with a V-shaped groove 13.

14 15 represent adjustable jaws, one of which is located on each side of the stationary jaw, and these adjustable jaws are each provided with an integral dovetail tongue 16, which permits a free lateral movement of said tongues 16 in the slot 7 between the converging walls 8 9, and the upper face of each sliding jaw is formed with a V-shaped groove 17, which receives the outer ends of the parallel three-cornered guide-bars 18 and 19, the extreme ends of which are formed with flanged heads 20 20 to prevent their accidental displacement in the clamps 3 and 4.

21 21 represent transverse adjusting-screws mounted in the stationary blocks 6 6, which engage the movable jaws 14 15 to permit their parallel adjustment with the central fixed jaws 12 12. These adjusting-screws 21 21 are each provided with a projecting head 22 and a shoulder 23, which abuts against the outer end of the block 6, and a collar 24 is secured to the screw contiguous to the inner face of said block to permit the rotary movement of the screw without allowing any end play thereof.

25 represents a top plate which bears upon the horizontal face of the file to rigidly clamp it in place in its fixed jaw 12.

26 26 represent thumb-screws passing through the outer ends of said top plate and extending into the blocks 6 6 to adjustably secure the plate in place. A set-screw 27 is also secured centrally in the plate 25, and its inner end bears against the face of the file to assist in rigidly securing it in the fixed jaw.

The operation of the device is very simple, as will be seen from the following explanation:

The file is first rigidly secured in the clamps 3 and 4, as above described, and the parallel guide-bars 18 19 adjusted to correspond to the contiguous V-shaped spaces between the saw-teeth on each side of the space in which the file is operating. All that is necessary then is to hold the file-guide horizontal and diagonal to the line of teeth and reciprocate the file in the usual manner.

The guide-bars traveling in the adjoining spaces preserve the proper alinement of the file and cut or sharpen the teeth in an even and regular manner.

Although I have specifically described the construction and relative arrangement of the several elements of my invention, I do not desire to be confined to the same, as such changes or modifications may be made as clearly fall within the scope of my invention without departing from the spirit thereof.

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

1. A saw-filing guide comprising the clamps 3 and 4, each provided with a fixed and a movable jaw, and a top plate removably se-

cured to each clamp, in combination with a triangular guide-bar adjustably secured between said clamps 3 and 4, substantially as and for the purpose set forth.

2. A saw-filing guide comprising the clamps 3 and 4, each provided with the fixed jaw 12, having a V-shaped groove 13, and the lateral adjustable jaws 14 15 formed with the V-shaped grooves 17 17, the removable top plate 25, in combination with the parallel triangular guide-bars 18 and 19, provided with the flanged heads 20 20 and adapted to be adjustably secured in said adjustable jaws 14 and 15, substantially as and for the purpose set forth.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

CHARLES REICHERT.

Witnesses:
ROBERT SMITH,
MATTHEW S. HUTTON.