

(No Model.)

W. H. MILLER.
GAGE FOR SIDE FILING SAWS.

No. 545,518.

Patented Sept. 3, 1895.

Fig. 1.

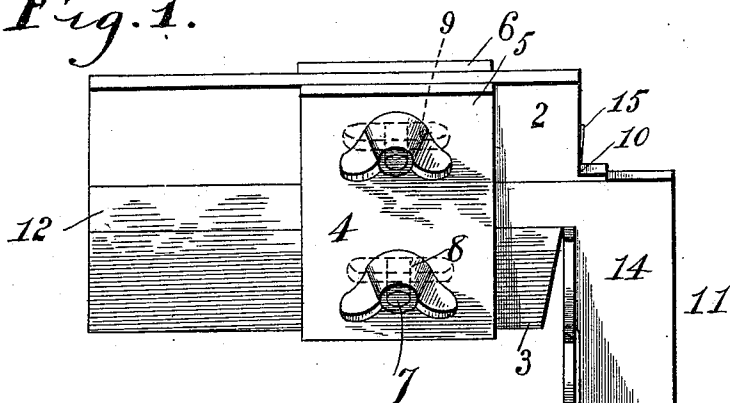
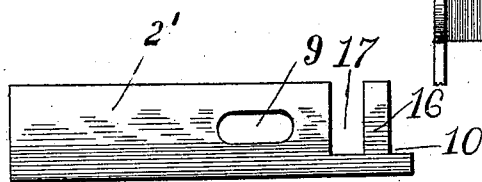


Fig. 2.



Witnesses:-
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UNITED STATES PATENT OFFICE.

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GAGE FOR SIDE-FILING SAWS.

SPECIFICATION forming part of Letters Patent No. 545,518, dated September 3, 1895.

Application filed April 22, 1895. Serial No. 546,791. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. MILLER, a citizen of the United States of America, residing at Lock Seven, in the county of Kanawha and State of West Virginia, have invented certain new and useful Improvements in Gages for Side-Filing Saws, of which the following is a specification, reference being had therein to the accompanying drawings.

The object of this invention is to produce an implement for use in side-filing the teeth of saws, that uniformity in the cut of the teeth will result.

Heretofore it has been impossible to adjust the width of the cut of the varying teeth to make them uniform with clearance on the sides of the teeth, but with this invention the operator can tell in an instant the degree of unevenness and by the use of the file make them correspond with any amount of clearance desired.

With these objects in view the invention consists in the novel details of construction, arrangement, and combination of parts, to be hereinafter more fully set forth and claimed, whereby a strong, durable, and efficient device of the above-referred-to class is produced at a comparatively low cost.

In describing the invention in detail reference is had to the accompanying drawings, forming part of this specification, wherein like numerals denote corresponding parts in both the views, in which—

Figure 1 is a view in perspective of my improved gage shown applied to a saw, and Fig. 2 is a view of a modified form of guide.

In the drawings, 1 denotes the saw, 2 and 3 the upper and lower guides of the gage, and 4 the clamp, formed of metallic strips 5 6, with coincident apertures to receive bolts 7. Thumb-taps 8 are used on the bolts to readily clamp and release the guides, said guides being provided with elongated apertures 9 to allow for adjustment. The upper guide 2 is cut away, as at 10, and the end thereof made of chilled steel of the maximum hardness to resist the file, which at this point cuts the teeth of the saw and comes in contact with the guide. The lower guide 3 is slightly beveled at its end to prevent binding of the saw when it enters the space between the guide and square 11. The square resembles those ordinarily used by machinists, and the upper

arm 12 thereof is riveted or otherwise fixed between the clamps, while the end of the guide 3 is adjusted to vary the width between the ends of said guide and the arm 14 of the square, and the upper guide is adjusted to indicate the set of a tooth when the arm 14 of the square is lying against the saw.

In Fig. 1 I have shown the device applied with a tooth 15 of the saw slightly protruding to illustrate how the device is applied in operation, which, from the foregoing description, will, it is thought, be understood.

The guide 2' (shown in Fig. 2) is adapted for use particularly on saws of standard gages. The tongue 16 is of a width equal to the standard gage, and the slot 17 is formed to receive the file when the inner side of the saw-tooth is operated upon. When a guide of this construction is substituted for the one now shown applied, the tongue 16 would indicate the amount of filing to be done, as its width is equal to the standard gage. In case a portion of a saw-tooth protrudes on the right it can be operated on by resting the file in the cut-away portion 10. If the saw-tooth protrudes on the left, the file can be inserted in the slot 17. Thus the tooth may be operated upon on either side without moving the gage.

I claim—

1. A device of the above referred to class consisting of a square, clamps arranged thereon and gages adjustable in the clamp, for the purpose described.

2. A device of the class described consisting of a square, clamps arranged thereon, an upper gage having its end of hardened steel, and the lower gage with a beveled end, as and for the purpose specified.

3. A device of the class described consisting of a square, and in combination therewith gages adjustable with relation to the square as and for the purpose described.

4. A gage for side filing saws consisting of a square, clamps arranged on the arm thereof and gages having slots to receive the clamping bolts, whereby they are adjustably secured, as and for the purpose described.

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

WILLIAM H. MILLER.

Witnesses:

HENRY S. CALVERT,
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