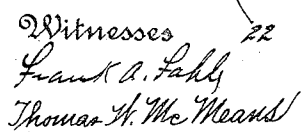


944,322.



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UNITED STATES PATENT OFFICE.

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SIDE FILE AND JOINTER FOR SAWS.

944,322.

Specification of Letters Patent. Patented Dec. 28, 1909.

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To all whom it may concern:

Be it known that I, LOUIS C. COOK, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Side Files and Jointers for Saws, of which the following is a specification.

The object of my present invention is to provide an improved side file and jointer for saws, capable of easy manipulation to position for either of its uses, and having a wide range of adjustment.

A tool embodying my said invention will be first fully described, and the novel features thereof then pointed out in the claims.

Referring to the accompanying drawings, which are made a part hereof, and on which similar reference characters indicate similar parts, Figure 1 is a front elevation of a saw tool embodying my present invention, when adjusted to position for use as a side file; Fig. 2 an end elevation thereof; Fig. 3 a transverse sectional view as seen when looking in the direction indicated by the arrows from the broken line 3 3 in Fig. 1; Fig. 4 a transverse sectional view with the file and its holder adjusted to position for use as a jointer, the section being taken at the point indicated by the dotted line 4 4 in Fig. 1; and Fig. 5 a horizontal sectional view as seen when looking downwardly from the dotted line 5 5 in Fig. 1.

As will be noticed especially by a comparison of Figs. 3 and 4, this single tool is capable of two separate uses. In the positions indicated by Figs. 1, 2, 3 and 5, it is arranged for use as a side file, to file or trim the sides of the saw tooth points after the same have been swaged. When adjusted to the position shown in Fig. 4, it is arranged to "joint" the extreme points of the teeth, thus reducing them to a uniform height.

I will now proceed to describe the construction of this tool. In a suitable frame 21 I mount a file-carrying frame consisting of parts 22 and 23 between which I secure by means of clamp screws 24 a piece of file 25 by means of which the jointing or trimming of the teeth is accomplished. This side and jointer file and its frame are pivotally and adjustably secured in the frame 21 by means of clamping screws 26 and 27 passing through slots 28 in said frame, and entering screw-threaded perforations in ears

on part 22. Also secured to frame 21 is a gage 31 which is arranged in suitable relation to the jointer file 25, and against which the points of the teeth being treated will bear during the side-filing or trimming operation, as best shown in Fig. 3. Said gage is secured by means of a clamp screw 32 passing through slot 33 in a stem 34 extending upwardly from said gage and entering a suitable corresponding screw-threaded perforation in an adjacent portion 29 of frame 21. Part 29 has a rib 29', and part 34 has a corresponding groove 34' to receive said rib, and the gage 31 is thereby held in proper relation.

In using this tool as a side file, the frame 21 has two bearing surfaces 41 and 42 which rest against the side of the saw to be treated, as best shown in Fig. 3, the point of contact with the saw blade being usually below the teeth. The file 25 is adjusted to fit against the inclined under side of the swaged tooth point, and is positioned to shape such tooth exactly as desired. The file holder, as stated, is pivotally mounted upon the clamp screws which carry it, and said clamp screws also pass through slots 28 in the frame 21, as best shown in Figs. 2 and 5, whereby said file holder is permitted to be adjusted back and forth as desired. The gage 31 is adjusted vertically to accommodate different lengths of saw teeth, as already indicated. In using the tool as a jointer the file and its frame are swung to the position shown in Fig. 4, and the saw is then brought against the other side of the frame, resting against bearing surfaces 43 and 44, as indicated.

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

1. The combination, in a saw tool, of a frame adapted to lie along the side of the saw blade and provided with bearing surfaces on both sides, a file and its holder revolubly mounted therein whereby it may be adjusted to a horizontal, vertical or angular position and arranged to operate upon the sides or ends of the saw tooth points, an adjustable gage secured to one side of the frame and adapted to bear upon the ends of the saw tooth points while the file is operating upon the sides thereof, and means for adjusting the several parts relatively to each other.

2. The combination, in a saw tool, of a

frame having openings in its ends and bearing surfaces to rest against the sides of the saw, a file holder arranged in said frame above said bearing surfaces, clamping screws passing through the openings in said frame and engaging with said file holder, and a file in said file holder, said file and file holder being revoluble on said clamping screws whereby the file may be adjusted to use for either side filing or jointing the ends of the saw teeth.

3. The combination, in a saw tool, of a frame provided with bearing surfaces upon both sides against which the saw to be treated may rest, a file holder revolubly mounted in said frame whereby it may be adjusted to position to operate upon a saw when brought against the bearing surfaces upon either side of the frame and thereby adjusted to either a side filing or a jointing position, and a file carried by said file holder.

4. The combination, in a saw tool, of a frame provided with bearing surfaces upon both sides upon which the saw to be treated may rest and also provided with slots ar-

ranged transversely the plane of said bearing surfaces, a file holder mounted in said slots whereby it may be given either a transverse or rotary adjustment and adapted to either a side filing or a jointing position, and a file carried by said file holder.

5. The combination, in a saw tool, of a frame provided with bearing surfaces upon which the saw to be treated may rest and also provided with slots arranged transversely the plane of said bearing surfaces, a file holder mounted in said slots whereby it may be given either a transverse or rotary adjustment and adapted to either a side filing or a jointing position, and a file carried by said file holder.

In witness whereof, I, have hereunto set my hand and seal at Indianapolis, Indiana, this eighth day of March, A. D. one thousand nine hundred and nine.

LOUIS C. COOK. [L. S.]

Witnesses:

CHESTER BRADFORD,

THOMAS W. McMEANS.