(No Model.)

R. E. POINDEXTER.

DEVICE FOR DRESSING SAW TEETH.

No. 257,831. Patented May 9, 1882.

Fig. 1.

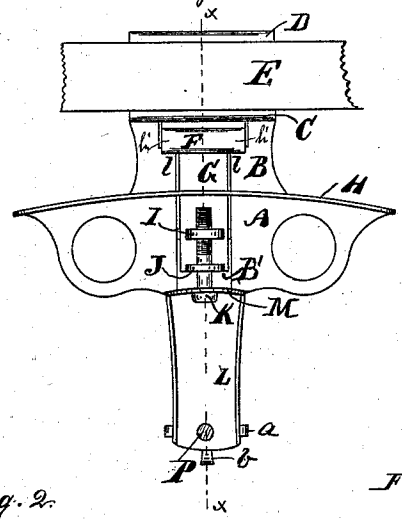


Fig. 2.

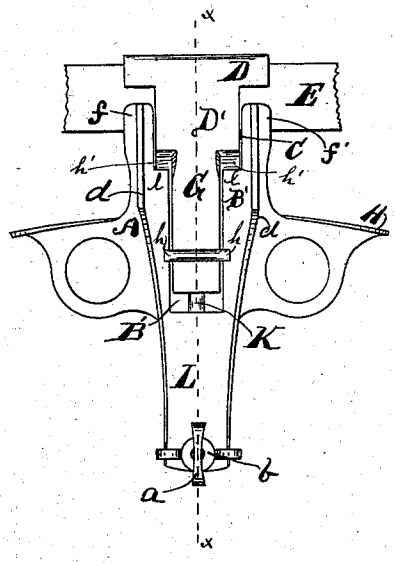
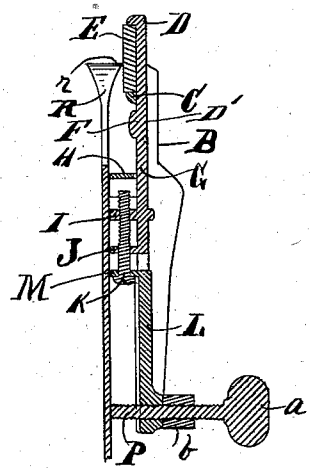


Fig. 3.



WITNESSES:

S. C. Frink

G. H. Rommell.

INVENTOR:

Robert E. Poindexter

Per S. C. Frink

his attorney

UNITED STATES PATENT OFFICE.

ROBERT E. POINDEXTER, OF INDIANAPOLIS, INDIANA.

DEVICE FOR DRESSING SAW-TEETH.

SPECIFICATION forming part of Letters Patent No. 257,831, dated May 9, 1882.

Application filed June 13, 1881. (No model.)

To all whom it may concern:

Be it known that I, ROBERT E. POINDEXTER, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented a new and useful Improvement in Devices for Dressing Saw-Teeth, of which the following is a specification.

My invention relates to improvements in saw-jointers; and the objects of my invention are, first, to provide a device for holding a file for side-jointing the teeth of a saw; second, to provide an adjustable gage for adjusting the device in proper relation to the saw-blade. These objects I accomplish by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 represents a top plan view of the entire device. Fig. 2 is a plan view of the under side of the same; and Fig. 3 is a section of the same, taken at the line *x x* of Figs. 1 and 2.

A, B, C, H, and L represent different parts of the main casting, and G D F represent different parts of the sliding clamp. The central portion of the parts A and B is provided with an opening, B′, with the gage-bar H extending across it on one side, said bar H also having a flange at the top of the part A, from side to side, as shown in Fig. 1. Near the upper end of the opening B′, on the same side as the rib or flange H, is another bar, C, cast on the part B. The upper edge of this bar C forms the lower jaw of the file-clamp, as shown in Figs. 1 and 3. The opening B′ at its upper end is made wider, and is bordered by upward-projecting flanges *f f*, which form a support for the back side of the file E, as shown in Fig. 2. At the bottom of the opening B′, extending across the upper part of the portion L, is a flange, M, having a hole in it for the reception of the screw K. The lower end of the part L is provided with a screw-threaded hole, in which the gage-screw P operates, said gage-screw being provided with handle *a*, for turning it, and a jam-nut, *b*, for holding it fast when adjusted.

The sliding clamp is composed of the part G, to fit in the opening B′, said part having a rib with projecting ends *h h* to act as guides. The part D′ is wider than the part G, and adapted to fit in the wide part of the opening between the flanges *f f*, said part D′ having at its bottom a rib, F, forming hook-guides *h′ h′* at the sides to hook over the parts *l l* of the main casting, and the rib or flange D at the top to form the upper clamp for the file. The part G on one side is provided with two cross-lugs or flanges, I J, the lower one, J, being drilled out to admit the smooth part of the screw K, while the part I is provided with a screw-thread for the screw K to operate in.

R represents the tooth of a saw, and *r* is the wedged point to be jointed or dressed by the file E.

The clamp G D F is inserted in the opening B′, with the flanges *h h* on one side and the hooks *h′ h′* on the other side of the main casting. The part G slides against the rib H and the part D′ slides against the jaw C. Thus the sliding clamp is held in the main casting, with an adjustment up and down, by the screw K. Said screw K is loosened when the file E is placed between the jaws C and D, and the file made fast by screwing up said screw. The file E being secured in position, as above described, and the device adjusted in proper relation to the saw-blade by means of the adjusting-screw P, the saw is caused to rotate in contact with the file, so as to remove any inequalities, and thereby reduce the teeth to a uniform thickness.

What I claim as new, and desire to secure by Letters Patent, is—

1. The casting A B L, having a slot, B′, and upward-projecting arms *f f′*, bar C, and the ribs H and M, combined with adjusting-screw P *a*, the clamp-slide G D, and the screw K, substantially as shown and described.

2. The clamp-jaw D on the slide G, combined with the jaw C on the main casting, the screw K, nut I, guide J, and rib M, by means of which the file E is held firmly in position to dress the sides of the teeth of a saw, substantially as shown and described.

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

ROBERT E. POINDEXTER.

Witnesses:

GEORGE H. RENNETT,

E. O. FRINK.