(No Model.)

A. M. PINEO.

SAW GUIDE.

No. 542,656. Patented July 16, 1895.

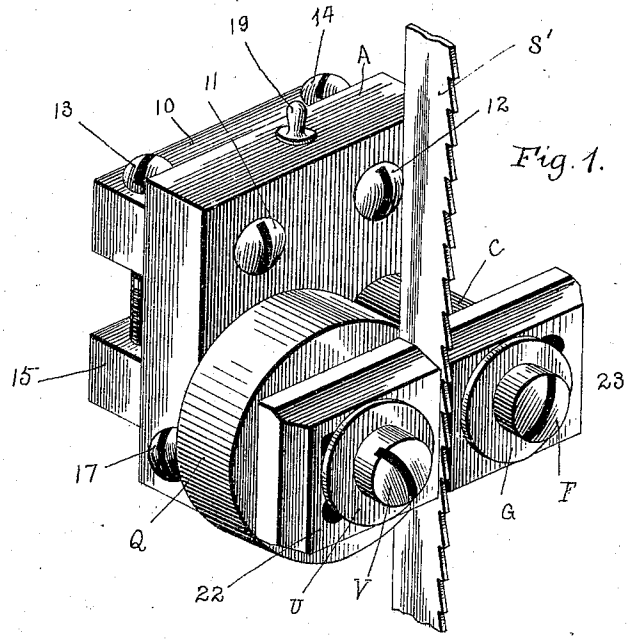


Fig. 1.

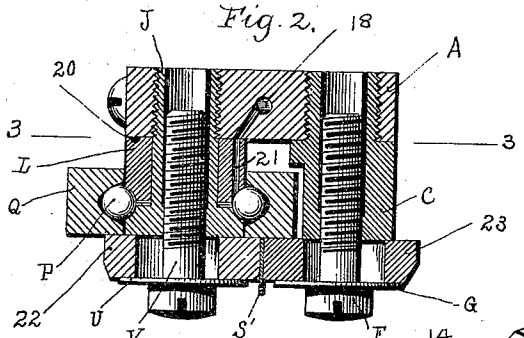
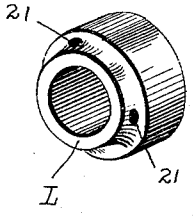


Fig. 2.

Fig. 4.



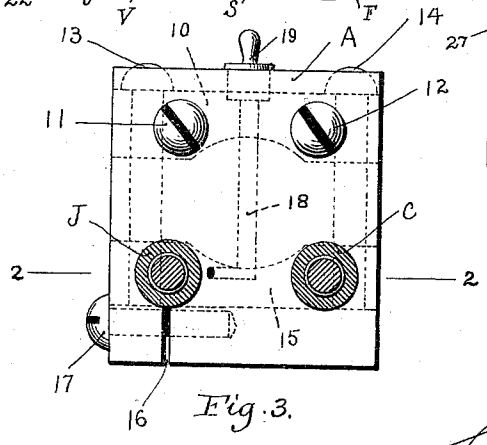
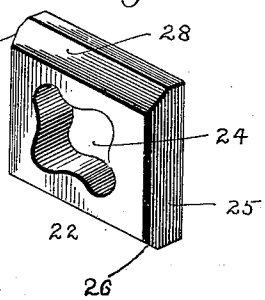


Fig. 3.

Fig. 5.



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UNITED STATES PATENT OFFICE.

AUBREY M. PINEO, OF GARDNER, MASSACHUSETTS.

SAW-GUIDE.

SPECIFICATION forming part of Letters Patent No. 542,656, dated July 16, 1895.

Application filed April 23, 1895. Serial No. 546,862. (No model.)

To all whom it may concern:

Be it known that I, AUBREY M. PINEO, a citizen of the United States, residing at Gardner, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Saw-Guides, of which the following is a specification.

My present invention relates to saw-guides, and has been especially designed as an improvement upon the device for which Letters Patent of the United States were granted to me August 7, 1894, No. 523,994.

The objects of my invention are to provide a pair of side guides, each having a plurality of bearing-faces of different widths, and which may be adjusted to present their different faces to co-operate with the saw, and to provide improved means for adjusting and securing the ball-bearings.

To these ends my invention consists of the parts and combinations of parts, as hereinafter described, and more particularly pointed out in the claims at the end of this specification.

In the accompanying drawings, Figure 1 is a perspective view of a saw-guide constructed according to my invention. Fig. 2 is a sectional view taken on the line 2 2 of Fig. 3. Fig. 3 is a sectional view taken on the line 3 3 of Fig. 2, and Figs. 4 and 5 are detail perspective views to be hereinafter referred to.

Referring to the drawings and in detail, A designates a base-plate or support. Threaded into the base-plate A, near its lower edge, is a stud C, which is slabbed away upon one side, and serves as a support for one of the side guides, as 23. Also threaded into the base-plate A is a stud J, having an annular head or shoulder formed at its outer end. Fitting upon the stud J is a collar L, which is cut off at an incline, as shown, to form an annular shoulder corresponding with the head of the stud J. Also mounted on the stud J and turning upon suitable balls P, which are secured in place between the collar L and the head of the stud J, is a rotatable disk Q, which forms a guide for the rear edge of the saw. A second side guide 22 is adjustably supported on the outer end of the stud J. These parts may be of substantially the construction shown in my patent before referred to and need not be herein described at length.

The side guides 22 and 23, which I preferably employ, are of similar construction and are most clearly illustrated in Figs. 2 and 5.

Referring to Fig. 5, it will be seen that the guide 22 is substantially square or rectangular in shape and is provided with a cross or diamond-shaped aperture 24 for receiving the clamping-screw. By means of this construction it will be seen that either of its edges or bearing-surfaces can be turned into position to engage with the saw, and in practice I preferably make said bearing-surfaces of different widths to co-operate with various widths of saws which may be employed.

One edge or bearing-surface of the guide, as 25, may be left substantially plain. The edge 26 is slightly beveled or cut away to present a somewhat-narrower bearing surface, and the edges 27 and 28 are beveled off to a greater degree, thus providing a side guide having bearing-surfaces of four different widths. The side guide 22 is adjustably clamped in position upon the end of the stud J by means of a screw V and a washer U. In a similar manner the side guide 23 is adjustably clamped on the end of the stud C by means of the screw F and the washer G.

To provide means for lubricating the bearing of the disk Q, I preferably form an oil-channel 18 in the base-plate A. The oil-channel 18 may be provided with a suitable cap or cover 19 and leads into an annular groove 20 formed in the base of the collar L, as most clearly illustrated in Fig. 2. The annular groove 20 is connected with the ball-chamber by means of oil-passages 21, and by means of this construction it will be seen that the ball-bearings can be freely oiled and kept in good working condition.

As shown most clearly in Fig. 3, it will be seen that the base-plate A is provided with a slot or cut 16, which extends down from the threaded stud J. A clamping-screw 17 is threaded at its inner end into the base-plate A and may be turned to securely clamp the stud J in its adjusted position. I consider this securing device an important feature in practice, as it will be seen that the ball-bear-

ings can be accurately adjusted or tightened by screwing up the stud J and can be securely fastened in place by the screw 17, so that they will not work loose or be affected by the operation of the guide.

The clamping device which I preferably employ for securing the saw-guide upon the machine consists, as illustrated, of a stationary jaw 10, which is removably secured upon the back of the base-plate A by means of screws 11 and 12. Fitting loosely through the jaw 10 are screws 13 and 14, which are threaded into a movable jaw 15.

In practice I have found that this clamping device forms a very simple and efficient means for securing the guide in position to co-operate with the ordinary band-saw. It is also to be noted that when the guide is to be secured in a position where the clamping device cannot be conveniently employed said clamping device can be taken off by removing the screws 11 and 12, and other means for securing the guide in place may be employed.

I am aware that changes may be made in the construction of my saw-guide by those who are skilled in the art, and I do not wish, therefore, to be limited to the construction which I have shown and described; but

What I do claim, and desire to secure by Letters Patent of the United States, is—

1. In a saw guide, the combination of a guide for the rear edge of the saw, a pair of side-guides, said side-guides having bearing surfaces of different widths, and means for adjustably clamping said side-guides in position to present the desired bearing surfaces to the saw, substantially as described.

2. In a saw-guide, the combination of a base-plate, studs projecting from said base-plate, a disk journaled on one of said studs to form a guide for the rear edge of the saw, a pair of rectangular side-guides having their edges beveled to form bearing surfaces of different widths, and screws tapped into said studs for adjustably securing said side-guides in place, substantially as described.

3. In a saw-guide, the combination of a base-plate, a stud threaded into said base-plate, a rotatable disk mounted on said stud, ball-bearings for said disk, said bearings being arranged so that they may be adjusted by screwing up said stud, and a clamping screw for clamping said stud in its adjusted position, said clamping screw being threaded into the base-plate, and arranged transversely to a slot therein, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

AUBREY M. PINEO.

Witnesses:
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