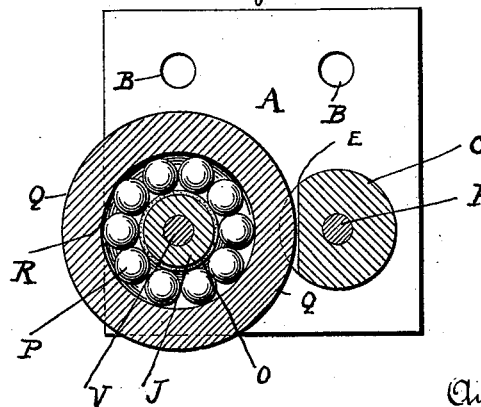
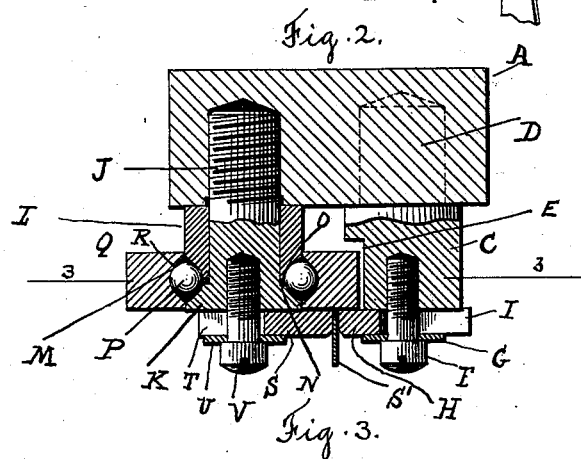
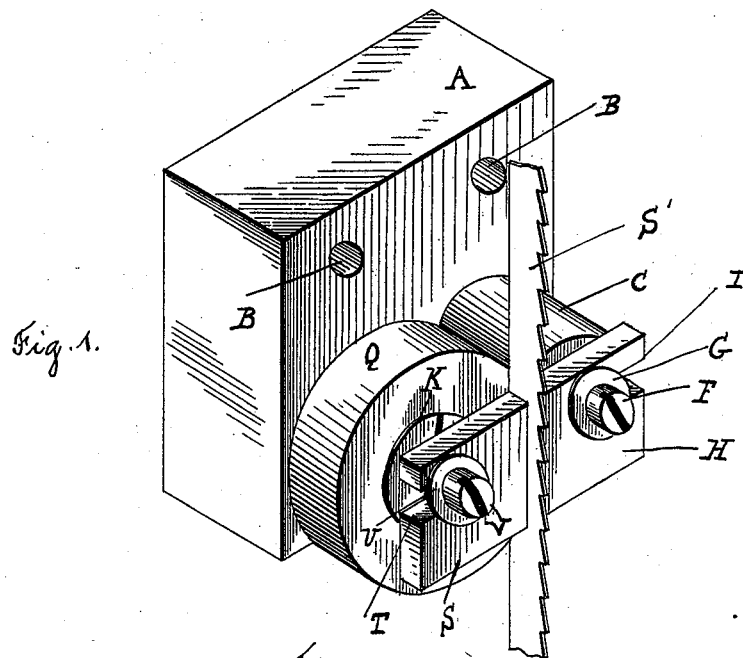


(No Model.)

A. M. PINEO.
SAW GUIDE.

No. 523,994.

Patented Aug. 7, 1894.



Witnesses
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UNITED STATES PATENT OFFICE.

AUBREY M. PINEO, OF GARDNER, MASSACHUSETTS.

SAW-GUIDE.

SPECIFICATION forming part of Letters Patent No. 523,994, dated August 7, 1894.

Application filed February 19, 1894. Serial No. 500,708. (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.

The aim of this invention is to produce a new saw-guide, which, while applicable to any saw, is especially designed to act as an improved guiding means for band saws.

To this end, the invention consists of the device described and claimed in this specification, and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of my improved device. Fig. 2 is a sectional plan view of the same, and Fig. 3 is a sectional elevation taken on the line 3—3 of Fig. 2.

Referring to the drawings and in detail, A represents a suitable block or base, which may be secured in any suitable manner to any part of the frame work of the machine, and the same has holes B, B through the same, through which securing screws may be passed.

C represents a suitable stud or support, which has a projecting shank D, which may be screw-threaded or fitted into the block A. This stud C is slabb'd away as at E, as shown, and arranged on the outside end of this support C is the side guide H, which is slotted as at I, as shown, and which is held in place by means of the washer G and screw F; the latter passing through the slot of the guide, and being tapped into the support C.

J represents a suitable screw or support, which is tapped into the block A, and this screw has an annular shoulder or head K formed in the outer end thereof. Fitting between this shoulder K and the block A is a collar L, which is cut off at an incline, as shown to form an annular shoulder corresponding with the annular shoulder of the head K of the screw J. A number of washers O, of light material, as paper, are arranged between the collar L and the head K, for a purpose hereinafter described. Running on the bearing thus formed is a wheel or rotatable guide Q, which has an annular groove R cut in the inside of the same, as shown.

Arranged between the groove formed between the collar L and the shoulder K of the

screw J, and the groove R of the wheel Q are a number of balls P. By this means, it will be seen that the guide Q is mounted so as to very easily turn upon its balled bearing. Further it will be seen that by removing or adding to the number of washers O, the bearing of the wheel Q can be easily adjusted.

Bearing on the outer end of the screw K is the side guide S, which is slotted as at T, and which is held in place by means of a washer U, and a screw V, which passes through the slot T, and which is tapped into the screw J, as shown. As thus arranged, it will be seen that I have provided a guiding device, which is extremely simple and of few parts.

The base of the saw S' bears on the side of the wheel Q, and thus runs very easily between the side guides H and S.

The side guides H and S can be readily adjusted to the saw S' by means of the screws which hold the same in place.

Another feature of my invention lies in the fact that the wheel Q is reversible; that is, when one face has been worn or cut by the saw that the wheel Q can be reversed on its bearings, and present a new surface to the back of the saw. By providing the wheel Q with a balled bearing in this manner, the same will run very easily, and pressure on the same will not create undue friction.

The details of the device herein shown may be greatly varied by a skilled mechanic without departing from the scope of my invention, as expressed in the claims.

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

1. In a band saw guide, the combination of a base or plate, a stud or support secured to said base, and a reversible disk journaled upon said support by means of suitable ball bearings, the parts being arranged so that the saw will bear upon the front face of the disk, and so that the disk may be reversed to present its different faces for wear, substantially as described.

2. In a band saw guide, the combination of a base or support, a stud threaded into said support, and having a slotted, tapering head for adjusting the same, a collar or bushing having an inclined shoulder mounted on said stud, the reversible disk having a central, in-

ternal V shaped groove, and a series of balls mounted in said groove, and adapted to bear on the inclined shoulder of the bushing and on the inclined head of the stud, whereby the
5 bearing may be adjusted by screwing up the stud without stopping the saw, and the disk may be reversed when one face of the same has become worn, substantially as described.

3. In a band saw guide, the combination of
10 a base or support A, the studs C and J secured to said support, a collar or bushing L carried by the stud J, the reversible disk Q mounted on the stud J by means of suitable ball bearings, the side guides H and S ad-

justably mounted on the studs C and J, the 15 parts being arranged so that the saw is adapted to bear upon the front face of the reversible disk or wheel Q, and so that the ball bearings may be adjusted by a number of thin washers as O, substantially as described. 20

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

AUBREY M. PINEO.

Witnesses:

PHILIP W. SOUTHGATE,
LOUIS W. SOUTHGATE.