(No Model.)

E. S. NIXON.

SAW GAGE.

No. 375,187. Patented Dec. 20, 1887.

Fig. 1.

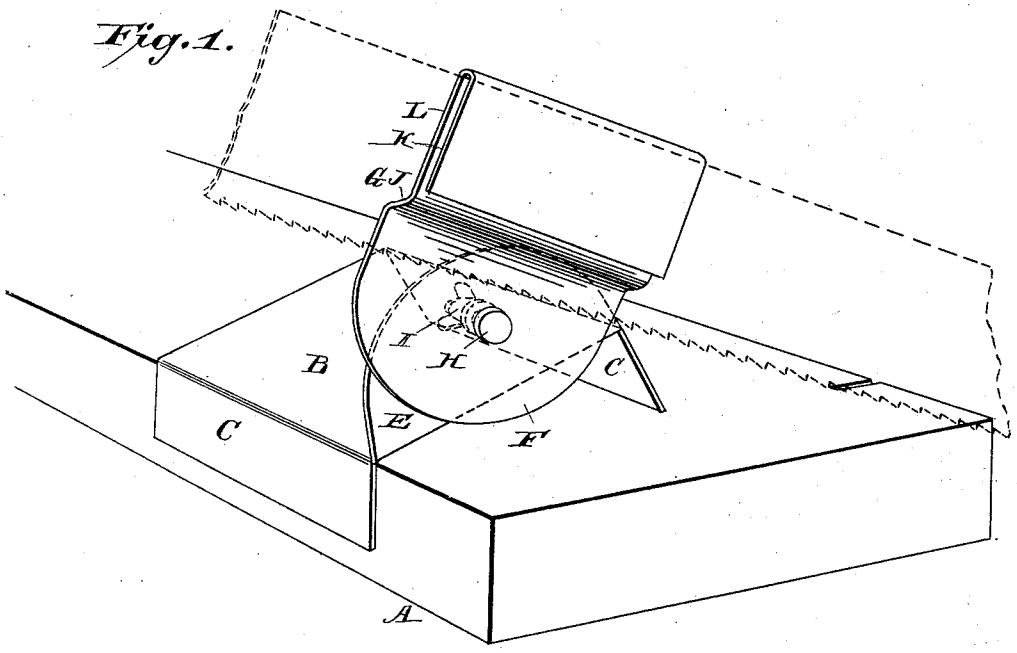


Fig. 2.

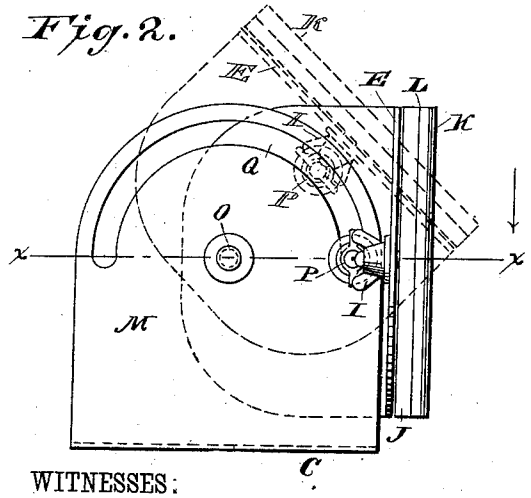
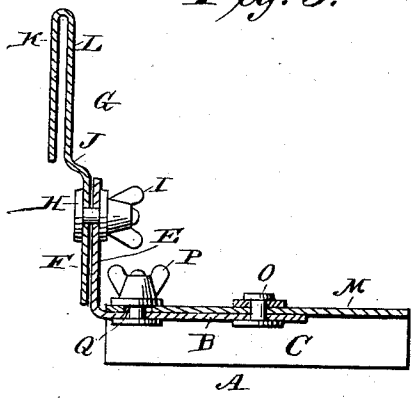


Fig. 3.



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EDWARD SPARLING NIXON, OF NEAR CHATTANOOGA, TENNESSEE.

SAW-GAGE.

SPECIFICATION forming part of Letters Patent No. 375,187, dated December 20, 1887.

Application filed May 26, 1887. Serial No. 239,422. (No model.)

To all whom it may concern:

Be it known that I, EDWARD SPARLING NIXON, of near Chattanooga, in the county of Hamilton and State of Tennessee, have invented a new and useful Improvement in Saw-Gages, of which the following is a full, clear, and exact description.

My invention has for its object to provide a simple and improved saw-gage which can be readily applied to the block or board to be sawed, will be held firmly in place thereon, and will accurately guide the saw in the direction in which the block or board is to be cut.

The invention consists in a novel construction and combination of parts, as hereinafter fully described, and particularly pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view illustrating the construction and use of my improved saw-gage. Fig. 2 is a plan of a modified form of the gage. Fig. 3 is a section taken on the line *x x*, Fig. 2.

In carrying my invention into effect I may construct the base A of the gage, Fig. 1, of a flat rectangular plate, B, having flanges C projecting obliquely downward and outward from its parallel side edges.

A vertical plate, E, projects upward at a right angle from the front edge of the base-plate B, and to the front face of the plate E is pivoted the downwardly-depending plate F, formed on the saw-guide G, the headed pivotal screw H receiving on its end a nut, I, and thus forming a set-screw by which the plate F of the saw-guide may be clamped in any desired position with respect to the base-plate B.

The metal plate of which the saw-guide G and its pivotal plate F are formed is offset forwardly at J, extends upward in a plane parallel with the plate F, and is then bent downward and extends parallel with itself to the offset at J, thus forming parallel guide-plates K L, arranged in planes at right angles to the side edges of the base-plate B. This form of gage is reversible, and is set on the board or block to be sawed with either of its parallel side angles fitting over one side edge of the said board or block, the opposite flange C resting on the top of the board or block, as indicated in dotted lines in Fig. 1, and the narrow channel-way in the guide G directly over the desired cross-cut.

The saw, being introduced between the parallel guide-plates K L, can be worked at any desired vertical angle by tilting the guide G, and can be lowered as the cut progresses, but will be continually embraced between the parallel plates K L, and thus be accurately guided in a plane at right angles to the side edges of the board or block.

The form of gage shown in Figs. 2 and 3 is like that described, as far as the tilting saw-guide is concerned; but the base-plate B, instead of being formed with parallel side flanges, is provided with an independent plate, M, pivoted by the stud O to the top thereof, and formed with a single straight depending flange, C. This holding-flange C can be swung to either side of the base-plate B at right angles to the guide G for cutting directly across the board or block; or it can be adjusted at any desired angle with respect to the guide for cutting the board or block on a bevel or incline.

A set-screw, P, mounted in the base-plate B, rides in a semicircular slot, Q, formed in the flange carrying plate M, so that the guide G can be held at any desired horizontal angle with respect to the flange C, and thus with the side of the board to be sawed.

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

1. In a saw-gage, a base-plate, B, having an upright plate, E, in combination with a saw-guide, G, having a depending plate, F, pivoted to the plate E, to adapt the guide G to tilt in the plane of its length and depth, substantially as shown and described.

2. In a saw-gage, a saw-guide, G, having one of its parallel guide-plates, L, continued downward below the other guide-plate, K, to form a plate, F, and formed with an offset, J, in combination with a base-plate, B, to which the plate F is connected, substantially as shown and described.

3. In a saw-gage, the combination of a base-plate, B, having an upright plate, E, a saw-guide, G, having a depending plate, F, a

headed screw, H, pivotally connecting the plates E and F, and a clamp-nut, I, on said pivot-screw H, substantially as shown and described.

4. As an improved article of manufacture, a saw-gage constructed with a flat base-plate, B, a depending flange, C, a perpendicularly-projecting plate, E, the plate F, pivoted to the face of said plate E and having the offset J, and the parallel guide-plates K L, all arranged substantially as herein shown and described.

EDWARD SPARLING NIXON.

Witnesses:
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