J. CLAUSER.

Saw-Frame.

No. 211,703. Patented Jan. 28, 1879.

Fig. 1.

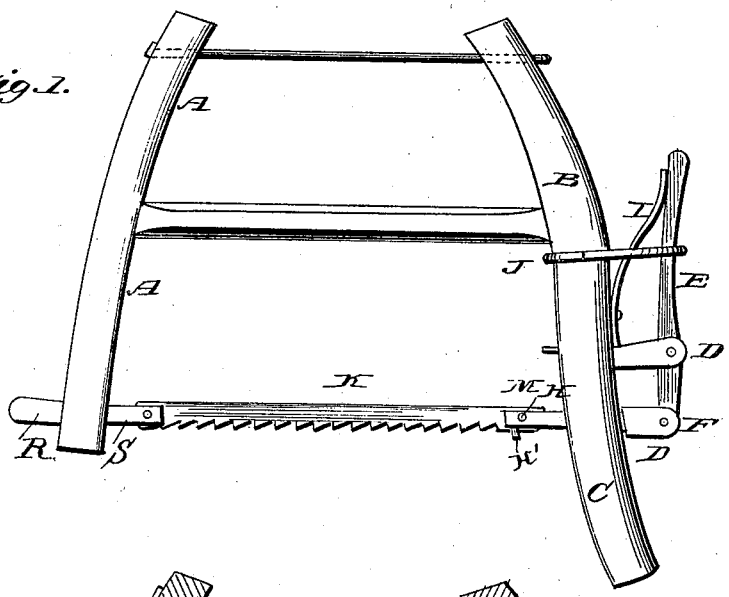
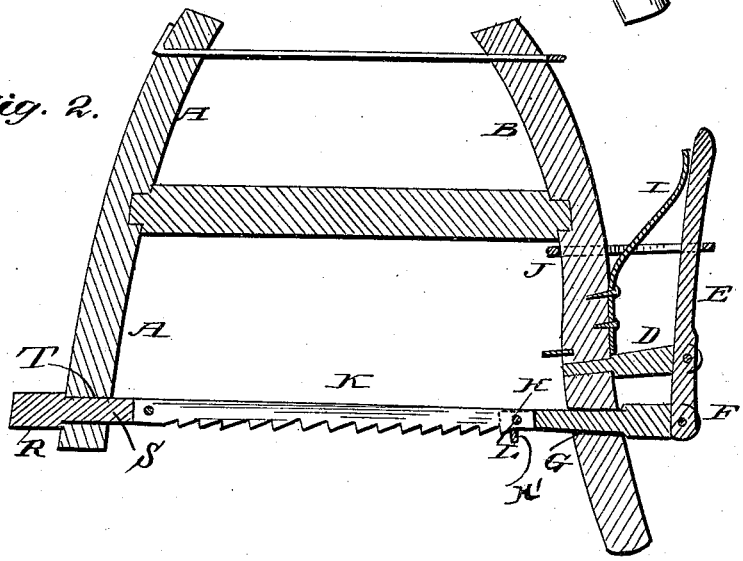


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

JACOB CLAUSER, OF PALMYRA, PENNSYLVANIA.

IMPROVEMENT IN SAW-FRAMES.

Specification forming part of Letters Patent No. **211,703**, dated January 28, 1879; application filed December 3, 1878.

To all whom it may concern:

Be it known that I, JACOB CLAUSER, of Palmyra P. O., in the county of Lebanon and State of Pennsylvania, have invented certain new and useful Improvements in Saw-Frames; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a side view, and Fig. 2 is a longitudinal vertical section.

Similar letters of reference indicate corresponding parts in both figures.

This invention relates to an improvement in saws, the object of which is to make one end of the saw-blade adjustable and detachable, so as to render the saw especially adapted to sawing mortises in fence-posts, &c.

The construction of my improved saw will be hereinafter more fully described, with reference to the drawings, in which—

A represents the saw-frame, one of the side pieces of which, B, is provided with the handle C. The side piece, B, has a bracket, D, in which is pivoted a lever, E. To the lower short arm of this lever is pivoted an arm, F, sliding in a perforation, G, in side piece, B, and having at its inner end a lateral pin or projection, H, and a downwardly-projecting pin or stud, H′.

The long arm of the lever extends upwardly, and is forced outwardly from side piece, B, by a spring, I, suitably arranged.

A link or ring, J, is arranged encircling the long arm of the lever and the side piece, B, in such a manner that the former, by forcing the link upwardly, may be drawn inwardly against the tension of the spring.

One end of the saw-blade K is attached to frame A by means of a stud, S, passing through a perforation, T, in the end piece, P, in which it may turn freely, and provided with a head, R, to prevent it from pulling through. The other end has a perforation, L, by which it may be adjusted upon the lateral pin H or the horizontal pin H′ of the sliding arm F, according to the position in which the saw-blade may be.

By drawing the link J upwardly, the lever is then operated so as to stretch or tighten the saw-blade for operation.

The method of using my improved saw will be readily understood from the foregoing description, taken in connection with the drawing hereto annexed. After boring the usual holes in the post to be mortised, the loose end of the saw-blade is detached (the spring I operating to facilitate this) and passed through one of the holes. It is then again secured to the saw-frame in the manner described, and the saw is then ready to be used in the ordinary manner.

By adjusting the end of the saw-blade as herein described, it may be made to saw vertical or horizontal mortises, as may be required. By the use of this simple device, mortises may be formed better and more rapidly than by using an ax, as is now ordinarily done.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

As an improvement in saws, the frame A, having bracket D, lever E, having pivoted arm F, spring I, ring or link J, and blade K, the latter journaled at one end to the saw-frame, and having at the other end a perforation, L, for attachment to the lateral or vertical pins H H′ of the arm F, all arranged and operating substantially as and for the purpose herein shown and specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JACOB CLAUSER.

Witnesses:

THOS. KRAMER,

EDWARD W. MAULFAIR.