

(No Model.)

A. McNIECE.

CLAMP FOR FRAME SAWS.

No. 298,995.

Patented May 20, 1884.

Fig. 1.

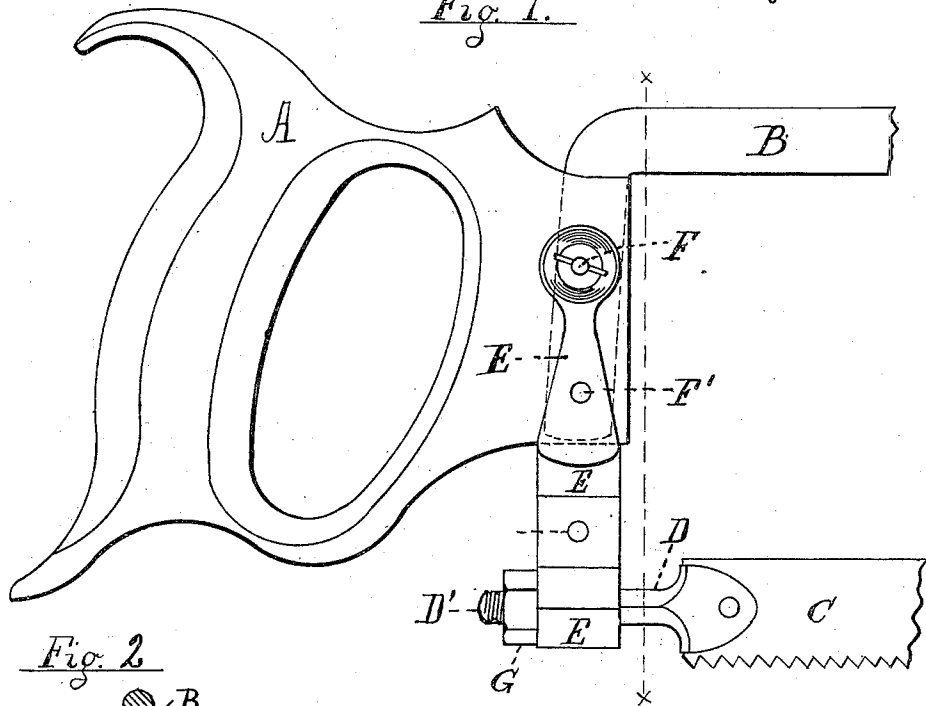


Fig. 2.

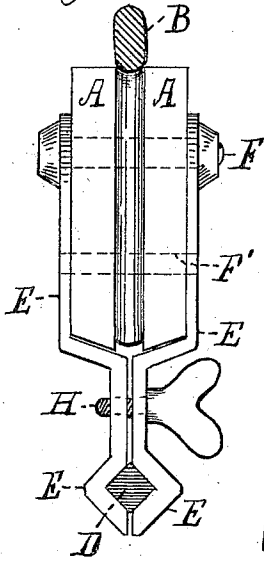
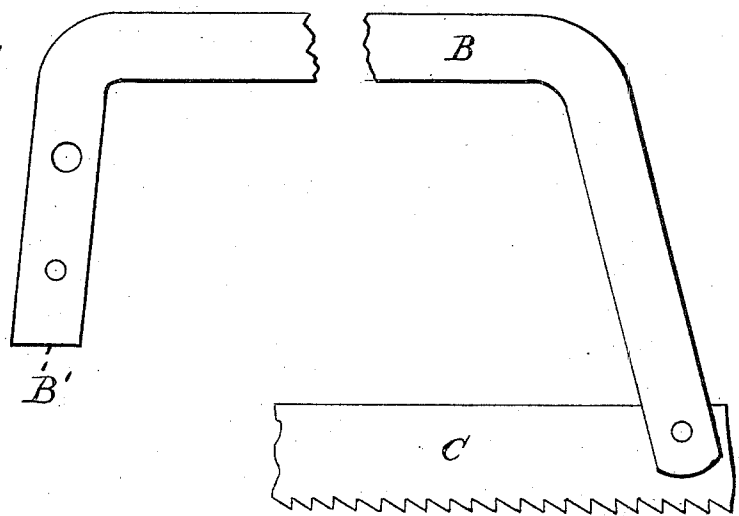


Fig. 3.



Attest.

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UNITED STATES PATENT OFFICE.

ANDREW McNIECE, OF NEWARK, NEW JERSEY, ASSIGNOR OF ONE-HALF TO ROWLAND HILTON, OF SAME PLACE.

CLAMP FOR FRAME-SAWS.

SPECIFICATION forming part of Letters Patent No. 298,995, dated May 20, 1884.

Application filed October 25, 1883. (No model.)

To all whom it may concern:

Be it known that I, ANDREW McNIECE, a citizen of the United States, residing in the city of Newark, county of Essex, and State of New Jersey, have invented certain new and useful Improvements in Clamps for Frame-Saw Buckles, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

This invention relates to that class of saws in which a long and narrow blade is stretched in or at one side of a suitable frame by means of a stretcher fixed to one end of the blade; and my improvements consist in an improved construction for the stretcher-clamp, and in the combination therewith of straps adapted to clamp the wooden handle upon the back of the frame.

These improvements will be understood by reference to the annexed drawings, in which Figure 1 is a side view of a handle and stretcher having part of the frame and saw attached. Fig. 2 is an end or inside view of the handle and its attachments, taken from the line *xx* in Fig. 1; and Fig. 3 is a detached side view of the frame and saw-blade removed from the handle, the same being represented as broken to show its ends within the limits of the drawings.

A is the handle, B the frame, C the blade, and D a buckle or stretcher to which one end of the blade is affixed to tighten it when required.

The buckle usually consists of a bolt inserted in one end of the frame, and provided with a nut to draw the blade longitudinally, the frame being often forged with an eye at one end expressly to receive the shank of the buckle. In my invention the clamp for the buckle is not formed on the frame, and the latter may thus be very cheaply constructed by merely bending a flat or oval bar of iron to the required shape, as shown in Fig. 3, without heating or forging the latter. The end of the frame is therefore cut short at the lower side of the handle, as appears in Fig. 1 and as indicated at B' in Fig. 3, and the clamp for the buckle is constructed in two symmetrical parts adapted to fit upon each side of the

handle, as shown at E E in Fig. 2, and secured thereto by one or more bolts, F. Such bolt is also inserted through the butt-end of the bent frame B, and a pin, rivet, or screw, F', is also inserted through the same parts, if but one bolt be used, to keep the frame and clamp from tipping under the stress of the stretching-screw D, which is supplied with a nut, G, at the outer end to tighten the saw, as usual.

The ends of the clamping-pieces E E where they extend below the handle A are formed to nearly touch one another, and have each of them a transverse notch adapted to receive one-half of the stretcher D. A screw, H, adapted to pinch the lower ends of the parts E E together, is inserted through them between the handle and the stretcher, and serves to pinch the stretcher between the notched ends of the clamps E E when the saw is in use, thus preventing the strain upon the blade C from jarring the nut G loose upon the screw D'.

The stretcher is shown herein in Fig. 2 as of square form, so that the clamps E E may keep the saw-blade from twisting when in use, the blade being pinned into the jaws of the stretcher at I in the usual manner; but the stretcher may be made of a round bar or of other shape, if preferred. With the construction shown the stretcher-bar D can be firmly clamped by the screw H when the saw is in use, and released with ease when the operator wishes to use the screw G in tightening the saw-blade. A blade can therefore be inserted or removed with entire facility, and as the clamps E E keep the stretcher from rattling the nut G is less liable to get loose or to turn around and release the tension from the saw-blade when in use. The stretcher being formed entirely apart from the frame or back, the latter can be made without the expense of forging an eye for the stretcher, and the clamp for the stretcher being formed of two parts, the same can be used to bind the front end of the handle firmly to the frame, as by the bolt F or rivets F'.

Although I have applied the combined clamp and jaw which I have shown herein to other purposes, I have not claimed the same herein

except in combination with the saw-stretcher, but have made the construction of the clamp and jaw the subject of another patent application, No. 123,250, pending simultaneously herewith.

Having thus described my invention, what I claim is—

1. The combination, with the handle A, of the frame B, fitted into a slot in the handle, as described, and a stretcher-clamp formed in two parts, and provided with grooves to fit the stretcher D, and a screw, as G, to clamp the parts upon the stretcher.

2. The clamp for a saw-blade stretcher, consisting in two symmetrical parts secured to the opposite sides of the handle and clamped upon the stretcher by a screw, substantially as herein shown and described.

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

ANDREW McNIECE.

Witnesses:

THOS. S. CRANE,
H. THEBERATH.