

I. FONDA.

Saw-Clamps.

No. 130,206.

Patented Aug. 6, 1872.

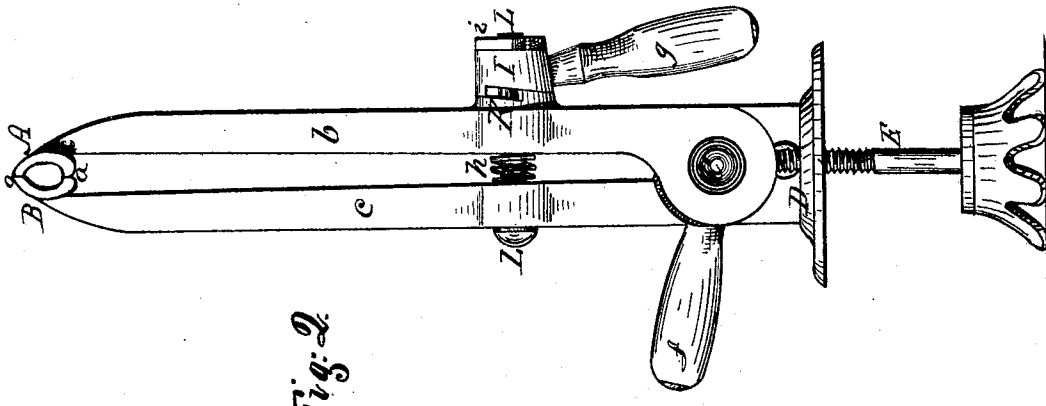


Fig. 2.

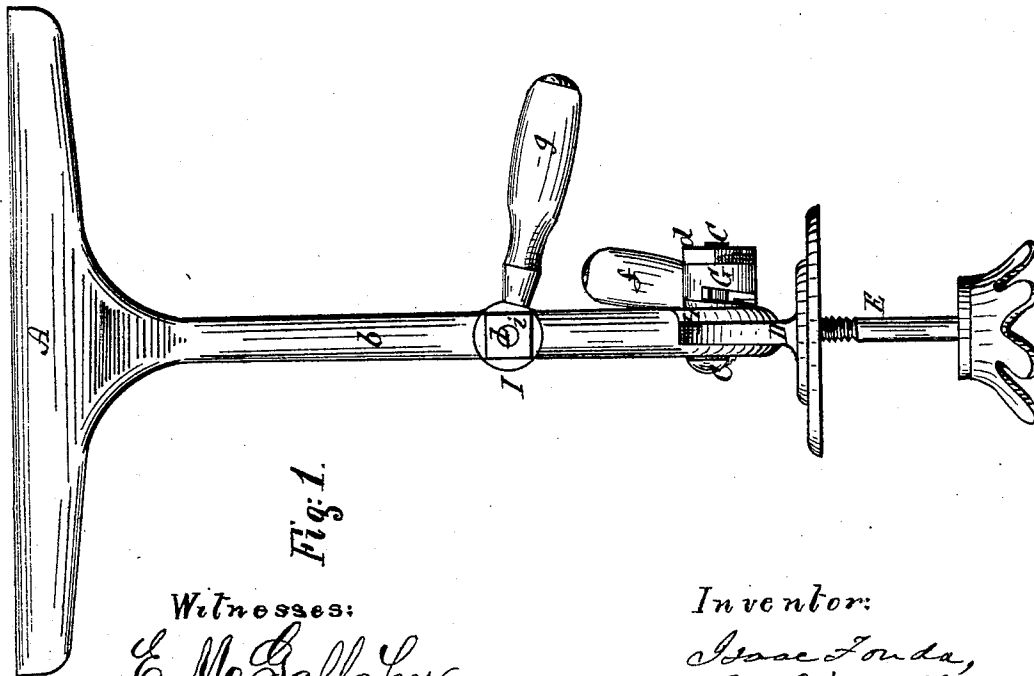


Fig. 1.

Witnesses:

E. M. Gallaher.
J. C. Lyons

Inventor:

Isaac Fonda,
By his attys
J. Brown.

UNITED STATES PATENT OFFICE.

ISAAC FONDA, OF LACONIA, NEW HAMPSHIRE.

IMPROVEMENT IN SAW-CLAMPS.

Specification forming part of Letters Patent No. 130,206, dated August 6, 1872.

To all whom it may concern:

Be it known that I, ISAAC FONDA, of Laconia, in the county of Belknap and State of New Hampshire, have invented an Improved Saw-Clamp; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing making part of this specification—

Figure 1 being a side elevation of the improved saw-clamp; Fig. 2, an elevation thereof at right angles to the view in Fig. 1.

Like letters designate corresponding parts in both figures.

The object of my invention is to furnish a convenient and effective clamp for holding saw-blades while filing them.

The clamp is constructed with two jaws, A B, having double clamping-edges *aa*, as shown. The shanks *b c* of these jaws turn on a pivot, C, which also passes through a base-piece, D, so that this single joint serves the double purpose of a hinge to the two jaws for their separation and approach, and a joint on which both jaws turn upon the base to any position, vertical or inclined. The base D is furnished with a hand-screw, E, for attaching the clamp to a bench or other support. The pivot-bolt C has on one end a cam, G, which plays against a counter cam-surface, H, on the side of the adjacent jaw-shank, as represented. The cam is held upon the bolt by a nut, *d*, which screws upon the end of the pivot-bolt, and serves also to adjust the closeness of the cam to the cam-surface on the jaw. The cam G has a

handle, *f*, to turn it by. A single partial turn of the handle will either loosen the jaws on the base or tighten the same in position.

A similar construction and arrangement of a cam, I, and a counter cam-surface, K, on one of the jaw-shanks, and of a bolt, L, passing through holes in the jaw-shanks in a proper position, as shown, serve to tighten the clamp-jaws against the saw-blades, and vice versa, on simply turning the cam I by its handle *g* a part of a circle. A coiled spring, *h*, between the jaw-shanks on the bolt L, separates the jaws when the cam is loosened. A nut, *i*, screwing on the end of the bolt L, holds the cam I to the cam-surface K of the jaw, and serves to adjust the closeness of the cam-surfaces.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of the screw-bolt L, jaws A B, cam I, cam-surface K, and adjusting-nut *i*, substantially as and for the purpose herein specified.

2. The spring *h*, in combination with the loose jaws A B, pivot C, cam I, cam-surface K, and bolt L; as and for the purpose herein specified.

Specification signed by me this 13th day of April, 1872.

ISAAC FONDA.

Witnesses:

S. C. CLARK,
G. H. TILTON.