B. Blackstone,

Saw Clamp.

No. 94,702. Patented Sept. 14. 1869.

Fig 1.

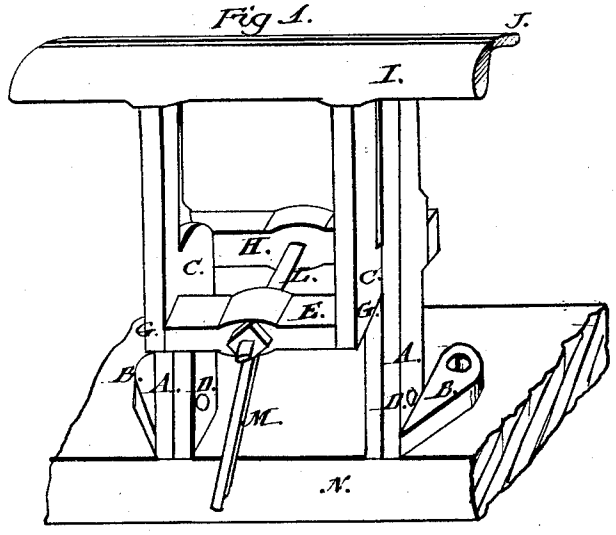
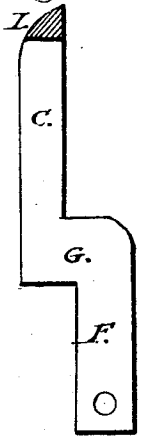


Fig. 2.



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B. BLACKSTONE, OF WARREN, ILLINOIS.

Letters Patent No. 94,702, *dated September* 14, 1869.

IMPROVEMENT IN SAW-CLAMPS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, B. BLACKSTONE, of Warren, in the county of Jo Daviess, and State of Illinois, have invented an Improved Saw-Clamp and Vise; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, and letters marked thereon, making a part of this description, in which—

Figure 1 is a perspective representation of my invention.

Figure 2, an elevation of one of the pivoted arms of the clamp, removed from the other parts.

The nature of the present invention consists in constructing a clamp, or vise, which has two upright standards, provided with lugs, for the convenience of fastening the device to a bench, and with a fixed jaw at the upper ends, which, with a movable jaw fixed to the upper ends of arms pivoted to the lower ends of the aforesaid standards, is used as a saw-clamp, or vise, as the nature of any particular case may require. The standards and pivoted arms having cross-trees rigidly attached to them, through which a screw-bolt is put, may be so operated, by loosening or tightening a nut on the rod, as to open and close the jaws.

A A represent standards, which have lugs B B, cross-piece H, and a jaw, J, cast solid to them, said lugs being used for the convenience of fastening the standards to a bench, and the jaw as one side of a clamp with which an article is held.

C G F, figs. 1 and 2, represent elbow-arms, which are placed on the inside of the standards A, and have their lower ends pivoted to them, as shown at D, fig. 1.

These arms have cast solid to them a jaw, I, and cross-piece E, said jaw forming the other part of the clamp, and the cross-piece providing means, together with the cross-piece H, for placing a screw-bolt, L, in position, whereby the jaw I may be opened or closed.

The object of making the arms C F with an elbow G is, that they will stand so far from over the pivots D as to open the jaw I, when the nut M is loosened, without the use of a spring; also for the better holding of a saw.

In manufacturing the device, I use malleable iron, and prefer to have the jaws case-hardened or chilled, only two patterns being required to make the castings, which need have no machine-work done to them except the drilling.

A clamp and vise constructed as above described will be found very convenient, both for farmers' and mechanics' use, and supply a want, rather than supplant another device.

Having thus fully described my invention,

What I claim, and desire to secure by Letters Patent of the United States, is—

The combination of the fixed standards A, jaws I J, elbow-arms C F G, and cross-trees E H, said arms being pivoted to the inside of the standards, all constructed and arranged and operating as described.

B. BLACKSTONE.

Witnesses:

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