

W. CLEMSON.
Saw-Frame.

No. 159,562.

Patented Feb. 9, 1875.

Fig. 1.

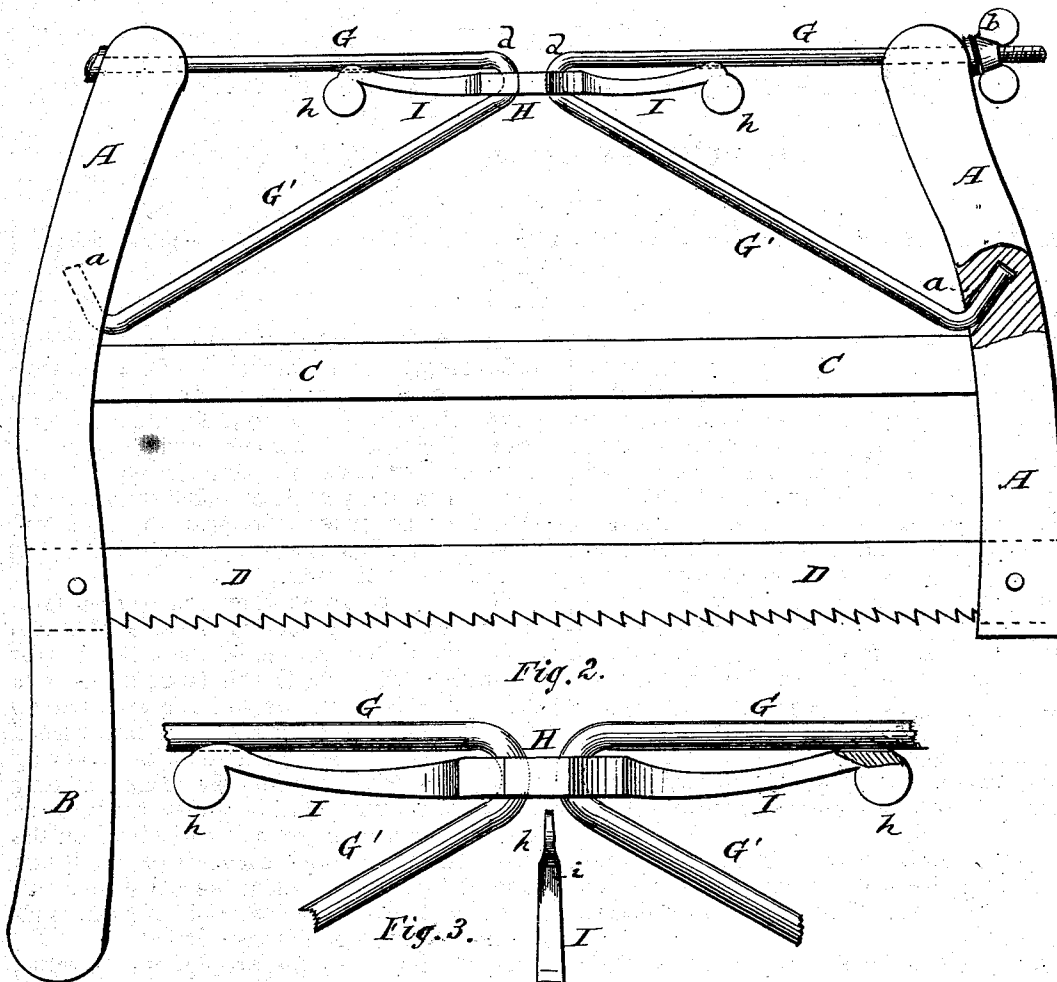


Fig. 2.

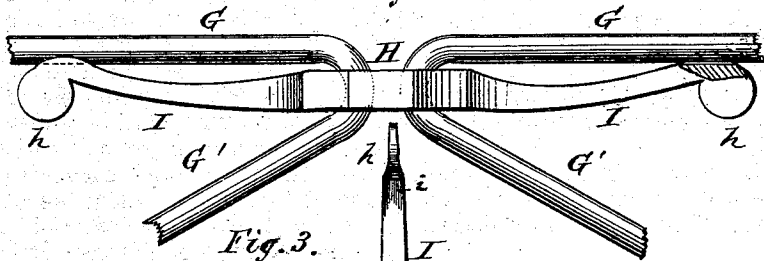
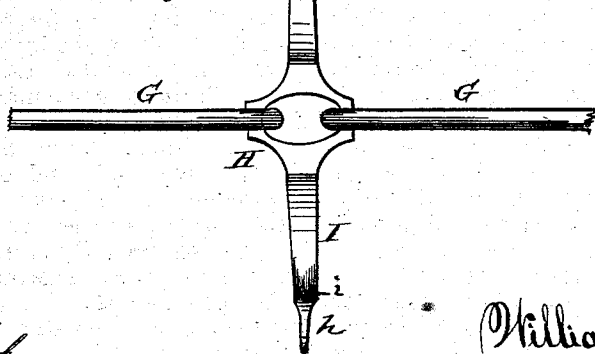


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN SAW-FRAMES.

Specification forming part of Letters Patent No. **159,562**, dated February 9, 1875; application filed January 16, 1875.

To all whom it may concern:

Be it known that I, WILLIAM CLEMON, of Middletown, in the county of Orange and State of New York, 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 thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to ordinary wood-saws; and it consists in the construction and arrangement of the devices for bracing and strengthening or tightening the saw-frame, whereby the saw is rendered strong and durable and capable of withstanding almost any amount of strain, as will be hereinafter more fully set forth.

In the annexed drawing, Figure 1 is a side view of a wood-saw embodying my invention. Figs. 2 and 3 are detailed views of certain parts thereof.

A A represent the ordinary end pieces of a wood-saw frame, connected by means of the bar C, and one of them extended to form the handle B. D is the saw-blade, secured in the end pieces A A in the ordinary manner. Through the upper end of each end piece A is passed a horizontal rod, G, which is bent at *d*, and from said point forms an inclined brace, G', extending back to the same end piece a short distance above the bar C. The end *a* of the brace G' is bent upward at an angle with the brace and inserted in a hole made in the end piece for that purpose. The horizontal rod G from each end piece extends nearly to the center between the upper ends of said end pieces, and the end of one rod is provided with a head to prevent it from being pulled through, while the end of the other rod is pro-

vided with a thumb-nut, *b*, for the purpose of tightening. On the combined rods and braces, at the bends *d d*, is placed an oval ring, H, provided with two arms, I I, extending outward in opposite directions on the line of the shortest diameter of the ring. Each arm I is at its outer end provided with a thumb-piece, *h*, and on the upper side, near the outer end of each arm, is a groove or notch, *i*, running lengthwise of the arm.

The ring and arms thus constructed form the tightening and locking lever of the saw. This lever is first turned so that the longest diameter of the ring H will be on a line with the rods G G when the nut *b* is screwed up tightly. The tightening-lever is now turned to bring the shortest diameter of the oval ring H on a line with the rods, the arms I I being at the same time sprung under the rods, so that the notches or grooves *i* will bind on the rods, thereby locking the lever in place. When thus tightened and locked the saw-frame will be perfectly strong and capable of withstanding any strain brought upon it.

The device is simple, strong, and durable, and not liable to get out of order.

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

A saw-frame, having parts A A C, in combination with rods and braces G G', and the tightening and locking lever, consisting of oval ring H, provided with arms I I, arranged to bind on rods G, substantially as and for the purpose herein specified.

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

WM. CLEMON.

Witnesses:

WILLIAM MILLSPAUGH,
CHS. I. HUMPHREY.