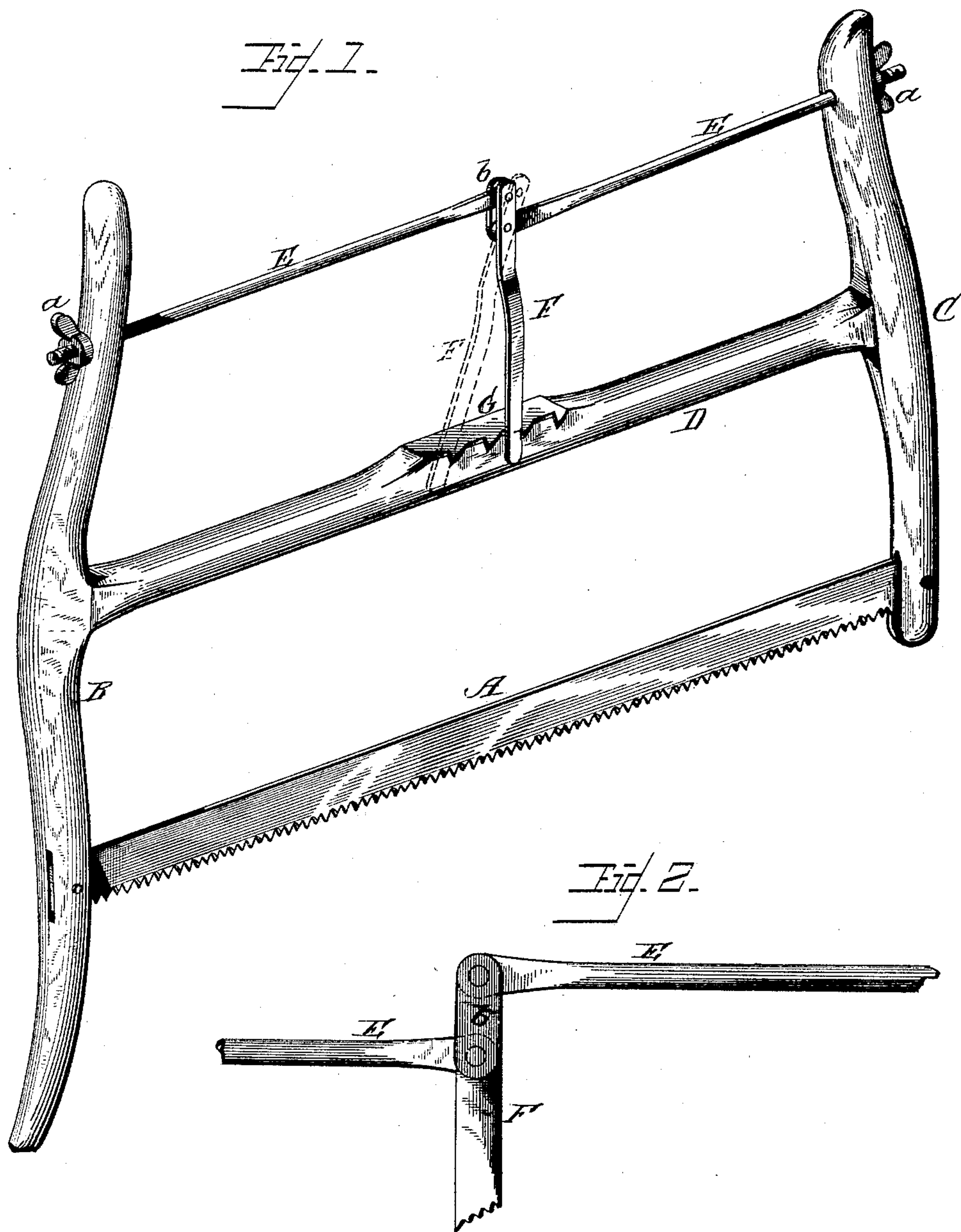


(No Model.)

S. HALE.
SAW FRAME.

No. 327,792.

Patented Oct. 6, 1885.



WITNESSES

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SAMUEL HALE, OF BLOOMFIELD, NEW JERSEY.

SAW-FRAME.

SPECIFICATION forming part of Letters Patent No. 327,792, dated October 6, 1885.

Application filed July 26, 1884. Renewed August 19, 1885. Serial No. 174,828. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL HALE, a citizen of the Dominion of Canada, residing at Bloomfield, in the county of Essex and State of New Jersey, 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 same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a perspective view of a saw and frame with my invention applied, and Fig. 2 a detail view showing the pivotal connection between the lever and rods.

The present invention has for its object to provide simple and effective means for straining wood or buck saws in their frames; and it consists in the details of construction, substantially as shown in the drawings, and hereinafter described and claimed.

In the accompanying drawings, A represents the saw-blade attached to the arms B C, which are connected together by the cross-bar D, these arms and bar constituting the frame of the saw, the arm B being of sufficient length to form handles at both top and bottom.

Rods E pass through the arms B C, and are screw-threaded on their outer ends to receive thumb-nuts *a*, by which means the rods can be shortened or lengthened as necessity requires or as the frame is strained. The inner ends of the rods E are preferably flattened and pivoted to the upper end of a straining-lever, F, a link, *b*, being secured on the opposite side of the flattened ends of the rods to make a stronger connection.

If preferred, the lever F may be cast with pins and holes made in the flattened ends of the rods E, and the link or washer *b* riveted to the outer ends of the pins; or any well-known means may be employed to make a pivotal connection between the rods and lever.

The lever F is so bent to come down upon the outer side of the cross-bar D, where is attached a ratchet-bar, toothed plate G, or any other desirable means for holding the lever in position after straining the frame to make the saw-blade tight.

One of the essential features of my invention is the pivotal connection between the rods and lever, making both a simple and effective means for straining the saw-frame equally on both sides.

In straining the saw-frame the slack of the arms B C can be first taken up by means of the thumb-nuts *a*, which are turned upon the screw-threaded ends of the rods E in the proper direction to shorten them at a point between their pivotal connection and the arms, and thus tightening the frame, after which it may be further tightened or strained by means of the lever F, thus providing two separate and distinct means of straining the frame, which act in conjunction with each other, and rendering the operation of the pivoted lever more effective, as less movement thereof is required to properly strain the saw-frame, as the slack is first taken up by the thumb-nuts.

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

In a buck-saw frame, the combination, with a straining-lever, of two straining-rods pivoted thereto at their inner ends, and having their outer ends screw-threaded and extending through the arms of the frame, and provided with thumb-nuts, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

SAMUEL HALE.

Witnesses:

P. LOUIS FUCHS,
LEVI SCHAY.