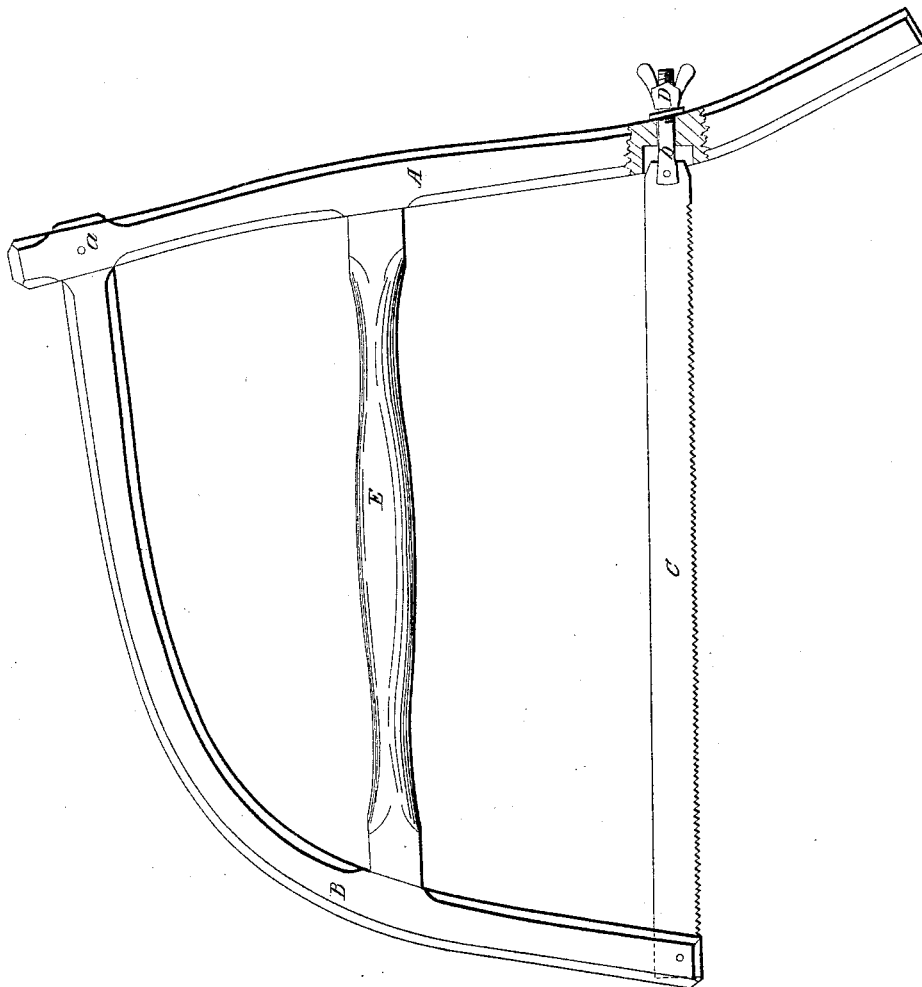


T. D. Roberts,

Hand Saw.

N^o 45,274.

Patented Nov. 29, 1864.



Witnesses:

*James H. Hall
Geo. W. Reed*

Inventor:

Thomas D. Roberts

UNITED STATES PATENT OFFICE.

THOMAS D. ROBERTS, OF MIDDLETOWN, NEW YORK.

IMPROVEMENT IN FRAMES FOR SAWS.

Specification forming part of Letters Patent No. **45,274**, dated November 29, 1864.

To all whom it may concern:

Be it known that I, THOMAS D. ROBERTS, of Middletown, in the county of Orange and State of New York, have invented a new and useful Improvement in Hand-Saws; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, making a part of this specification, said drawing being a side view of my invention.

This invention relates to an improvement in that class of hand-saws in which the saw-blade is strained in a wooden frame; and it consists in constructing the frame of two pieces of wood with a central bar, the saw-blade being, secured in the two main parts of the frame, and all so arranged that the frame may be constructed at much less cost than the ordinary frames and also be more durable.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents one portion or side of the frame, which is of slightly-curved form and constitutes the handle of the same.

B is the other part of the frame, which is composed of a straight piece of wood, steamed and bent in curved form, as shown in the drawing, its upper end being secured to the upper end of A by a pivot, *a*, and its lower end having one end of the saw-blade C secured to it, the other end of the saw-blade having a screw-rod, *b*, attached to it which passes

through the part or side A of the frame, and has a thumb-nut D on its outer end.

E represents a central wooden bar, the ends of which are framed into the parts A B of the frame, but are not secured therein by pivots or fastenings of any kind, tenons being formed on the ends of E, which are fitted loosely in mortises in A B.

The part or side A of the frame extends some distance down below the saw-blade C, in order to serve as a handle, and it will be seen that by screwing up the nut D the saw-blade will be strained or brought to a proper state of tension. By this arrangement it will be seen that the frame may be very cheaply constructed and still be very durable. The parts of the frame may all be straight grain, as the curves are not sawed out of a plank, but sawed straight and then steamed and bent to the desired shape.

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

The combination of the frame A B, consisting of two pieces connected by a pin at *a*, the cross-bar E, the saw-blade C, and the screw-bolt *b*, attached to the end of the saw-blade, and receiving a thumb nut, D, bearing upon the handle A, all as herein shown and described.

THOMAS D. ROBERTS.

Witnesses:

M. M. LIVINGSTON,
GEO. W. RIED.