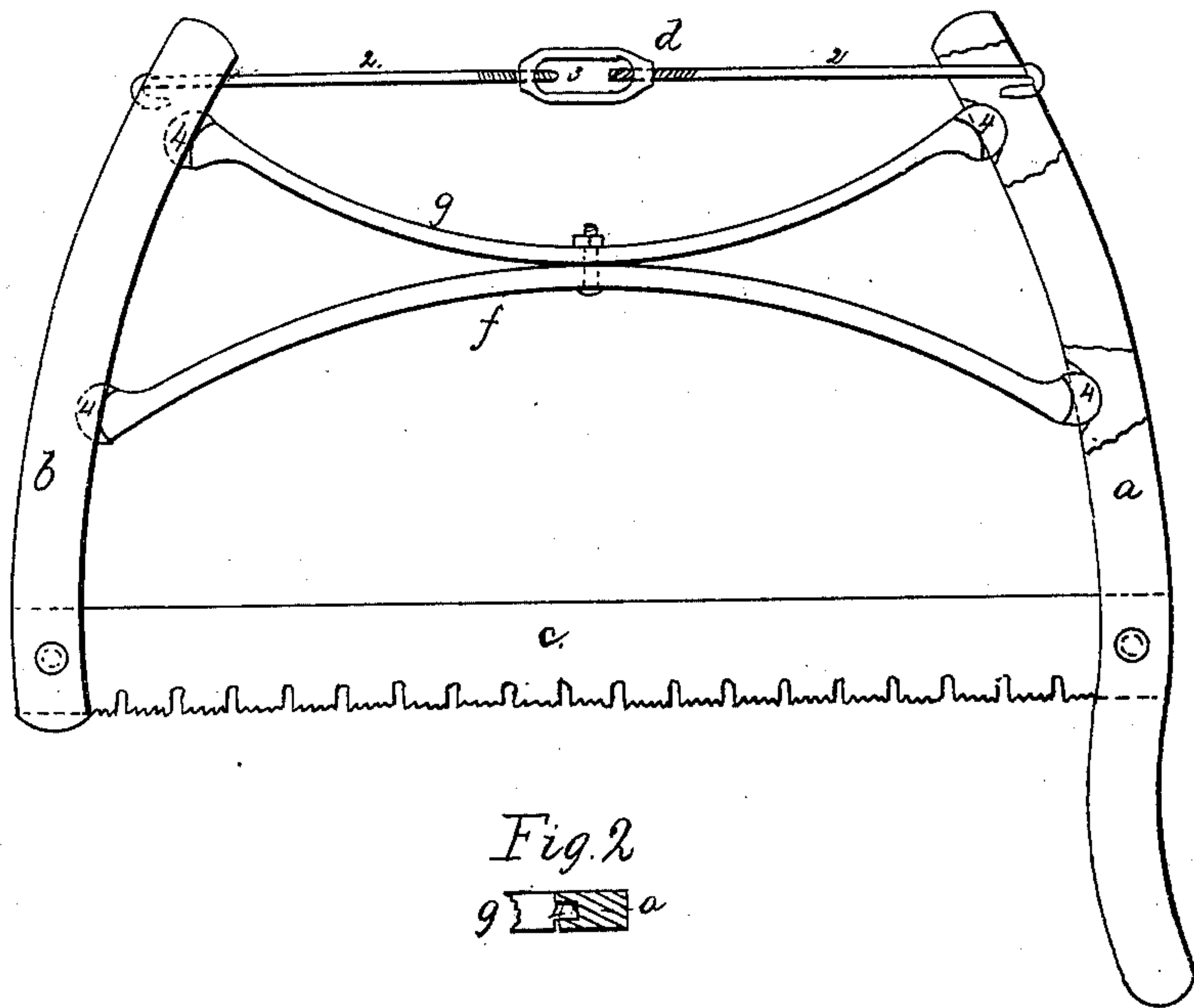


*D & E. Moore.*  
*Hand Saw.*  
*N<sup>o</sup> 94,500. Patented Sept. 7, 1869.*

*Fig. 1*



*Fig. 2*



*Inventor*

*David New*  
*Edwin Moore*

*Witnesses.*

*Charles H. Smith*

*Geo. W. Walder*

# United States Patent Office.

DANIEL MOORE AND EDWIN MOORE, OF BROOKLYN, E. D., NEW YORK.

Letters Patent No. 94,500, dated September 7, 1869.

## IMPROVEMENT IN SAW-FRAMES.

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

To all whom it may concern:

Be it known that we, DANIEL MOORE and EDWIN MOORE, of Brooklyn, E. D., in the county of Kings, and State of New York, have invented and made a new and useful Improvement in Saw-Frames; and we do hereby declare the following to be a full, clear, and exact description of the said invention, reference being had to the annexed drawing, making part of this specification, wherein—

Figure 1 is a side view of a saw-frame fitted with our improvement, a portion of one of the handles being in section; and

Figure 2 is a horizontal section at one of the joints. The same parts are indicated by like letters.

Saw-frames are exposed to the strain of the saw and to the racking motion resulting from the movement of the saw in use. A stretcher has heretofore been employed between the side frames to keep them apart, and a rod and screw-shackle to tighten the saw.

Our invention consists in arch-shaped stretchers set with the convex sides coming together, and inserted between the end pieces of the saw-frame, so that the act of drawing the upper ends of the saw-frames toward each other, in tightening the saw, shall act to force the stretcher next the saw into a less curved form, thereby spreading the frames at the same time that the arched stretchers brace and stiffen the frame against the racking motion to which it is subjected in use.

In the drawing—

*a* represents the handle-portion of the saw-frame;

*b* is the opposite portion of the frame;

*c*, the saw; and

*d* is a tightener for drawing the upper ends of the saw together. This tightener is shown as made of

rods, 2 2, with looped ends passing into mortises in the upper ends of the frames *a b*, and these rods, 2 2, have right and left-hand screw-threads on them taking the screw-shackle 3.

Our stretcher, *f*, is made with rounding ends as seen at 4, setting into correspondingly-shaped recesses in the faces or inner edges of the frame *a b*, and the tenons and mortises are also rounded as shown.

This stretcher, *f*, is made as an arc of a circle or a toggle, and the straining of the saw is effected by forcing the stretcher *f* into a more nearly straight form, and thereby increasing the distance between the joints at 4,

The counter-stretcher *g* is attached near the middle to the stretcher *f*, and the ends enter rounding recesses in *a* and *b*.

These stretchers, *f* and *g*, form arcs of circles, the convex sides coming toward each other; hence, when the tightener *d* draws the ends of *g* together, and makes the same the arc of a smaller circle, the stretcher *f* will be forced into a more nearly straight form, and spread the frames *a b*, straining the saw.

What we claim, and desire to secure by Letters Patent, is—

The stretcher *f*, formed as an arch, and united to the inverted arched stretcher *g*, in combination with the frames *a b*, and tightener *d*, as and for the purposes set forth.

In witness whereof, we have hereunto set our signatures, this 17th day of June, A. D. 1869.

DANL. MOORE.  
EDWIN MOORE.

Witnesses:

CHAS. H. SMITH,  
GEO. T. PINCKNEY.