

(No Model.)

J. W. THOMPSON.

BUCKSAW FRAME.

No. 390,416.

Patented Oct. 2, 1888.

Fig: 1.

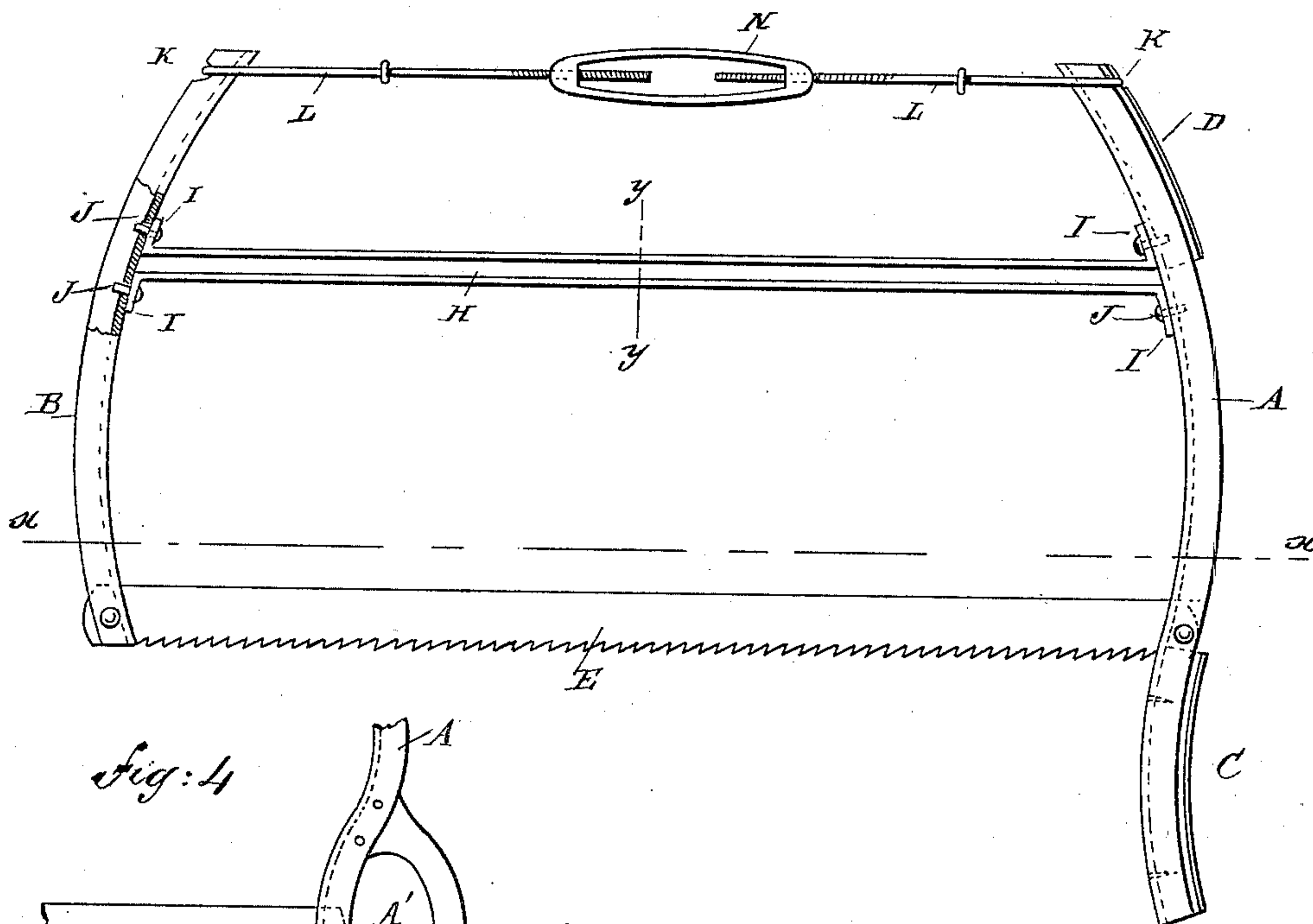


Fig: 4.

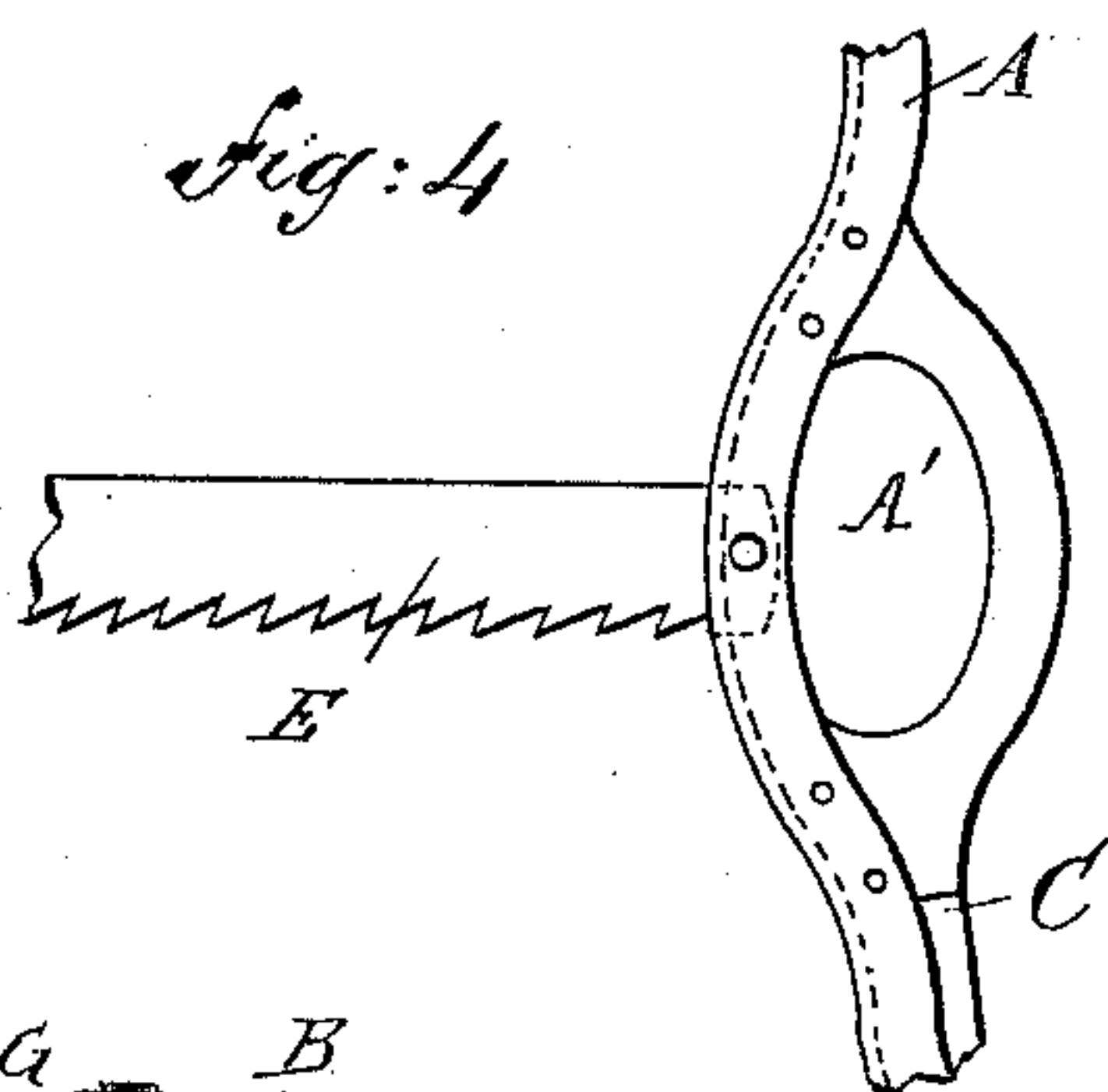


Fig: 2.

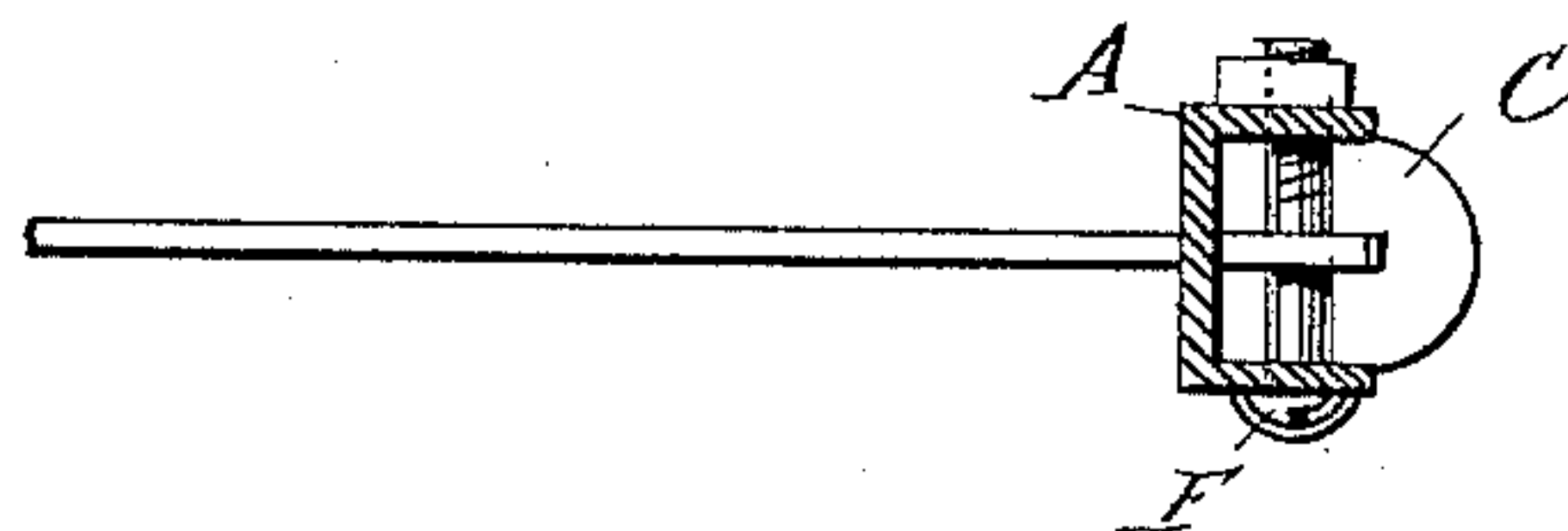
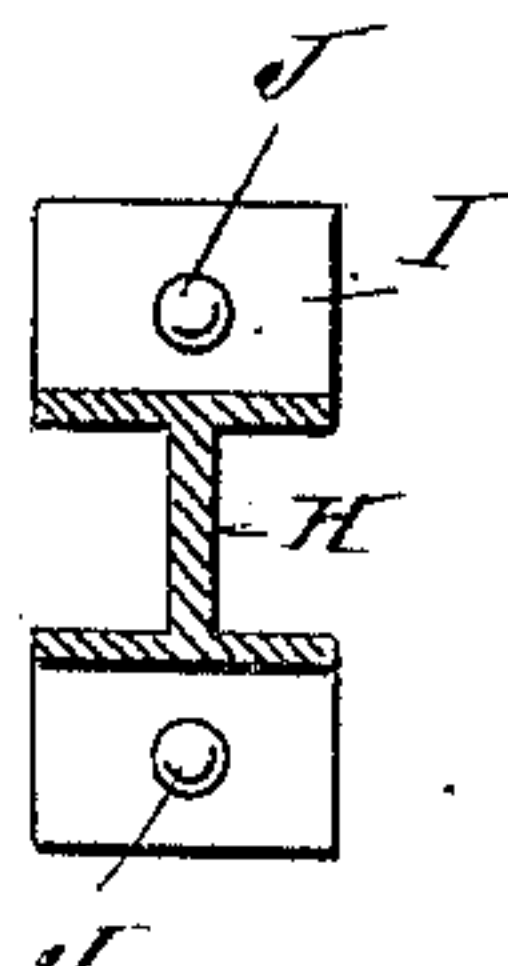


Fig: 3.



WITNESSES:

Chas. Nida
C. Sedgwick

INVENTOR:

J. W. Thompson
BY *Munn & Co*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOSEPH W. THOMPSON, OF MOUNT PLEASANT, IOWA.

BUCKSAW-FRAME.

SPECIFICATION forming part of Letters Patent No. 390,416, dated October 2, 1888.

Application filed September 27, 1887. Serial No. 250,823. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH W. THOMPSON, of Mount Pleasant, in the county of Henry and State of Iowa, have invented a new and Improved Bucksaw-Frame, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved bucksaw-frame which is simple and durable in construction and will not warp.

The invention consists in the construction and arrangement of various parts and details and combinations of the same, as will be fully described hereinafter, and then pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of my improvement. Fig. 2 is a sectional plan view of the same on the line *xx* of Fig. 1. Fig. 3 is an enlarged cross-section of the center piece on the line *yy* of Fig. 1, and Fig. 4 is a side elevation of part of a hand end piece of a modified form.

My improved bucksaw-frame is provided with the end pieces A, and B, each made of a U-shaped metallic bar, so as to combine lightness with strength. The end piece A is provided at its ends with the handles C and D, fastened by suitable means between the flanges of the U-shaped bar. The saw-blade E passes at each end through a slot in the end pieces, A and B, and is secured to the same by a screw passing through the first flange of the U-shaped bars and through an aperture in the saw-blade and being held in place by screwing into the outer flange or by any other convenient detachable device.

The center piece, H, which connects the two end pieces, A and B, is made of a metallic bar of a double T form, and is provided at each end with the flanges I, resting against the middle part of the U-shaped bars of the end pieces A and B. On each flange I is formed an outwardly-projecting pin, J, passing through a corresponding aperture in the middle part of the U-shaped bar of the end pieces, A and B.

The upper end of each end piece, A and B, is provided with a notch, K, on which is held a rod, L, extending inwardly and being screw-threaded at its end. A double nut, N, screws on the inner screw-threaded ends of the rods L, so as to impart the necessary tension to the saw-blade E.

It will be seen that by constructing the end pieces, A and B, of a U-shaped metallic bar I am enabled to make the entire saw-frame very light, strong, and durable. The peculiar construction of the center piece, H, prevents the saw-frame from warping when the nut N is adjusted so as to give to the saw-blade E the proper tension.

I do not limit myself to the special form of end piece as shown in Fig. 1, as I may employ an end piece, A, shaped as represented in Fig. 4, in which I form an aperture, A', so that the operator can take hold of the end piece at this point with one hand and use the saw without employing both hands for sawing.

My improved metallic saw-frame has a most decided advantage over wood frames, as it is not affected injuriously by moisture or heat, will not contract or expand, causing it to warp or split or sensibly lose its elasticity. It has an advantage over cast-metal or gas-pipe frame in that it is more elastic and very much lighter, yet stronger.

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

The herein-described bucksaw-frame, consisting of the metallic end pieces, A B, of substantially U shape in cross-section and having their lower ends slotted, the double T-shaped metallic bar H, provided with the flanges I, having the pins entering apertures in the end pieces, the screw-threaded rods L, the double nut N, and the handles C D, secured to the end piece A between the flanges thereof and projecting outward beyond the same, as specified.

JOSEPH W. THOMPSON.

Witnesses:

ED. N. KITCHEN,
JAMES STORER.