

(No Model.)

J. M. KOEBERLE.

SAW ROD.

No. 388,779.

Patented Aug. 28, 1888.

Fig. 1.

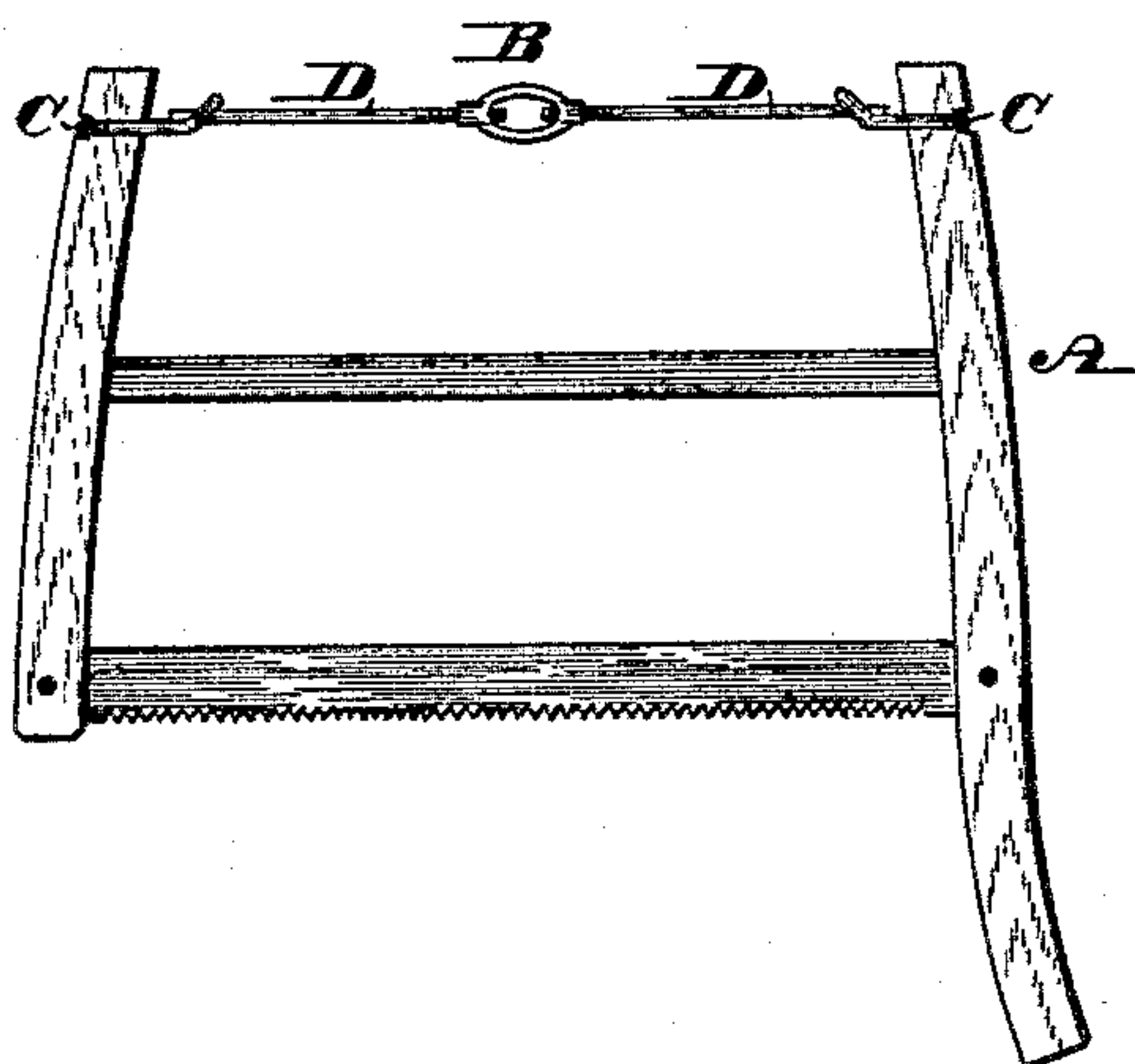


Fig. 2.

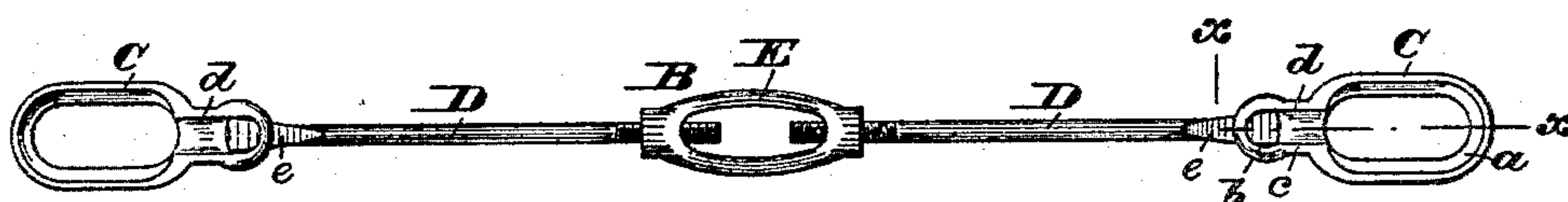


Fig. 3.

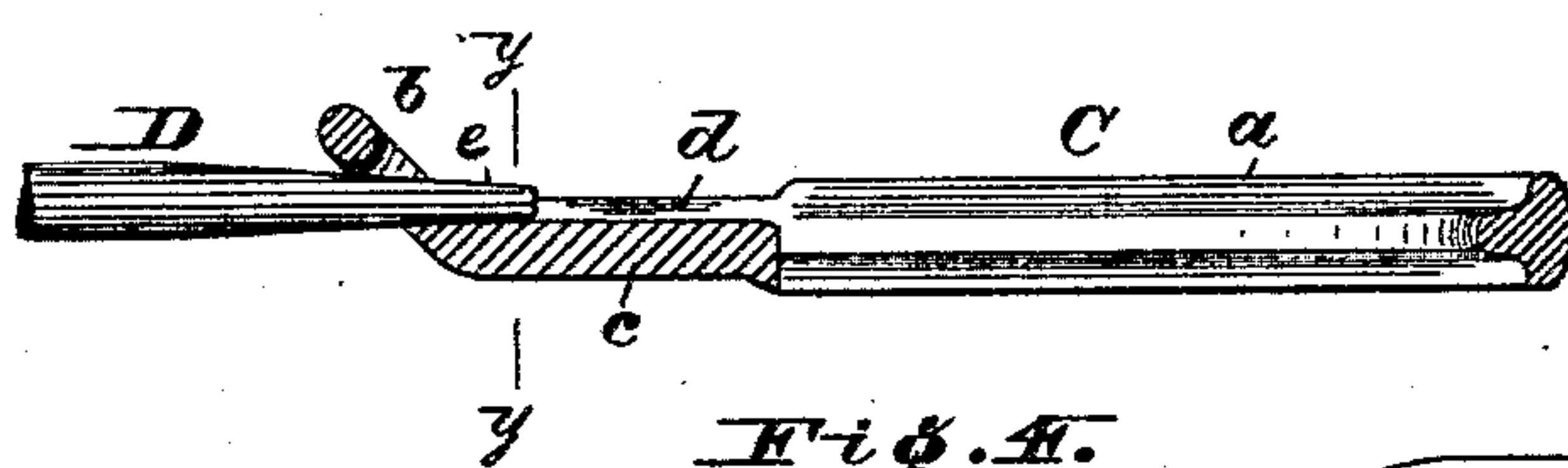


Fig. 4.

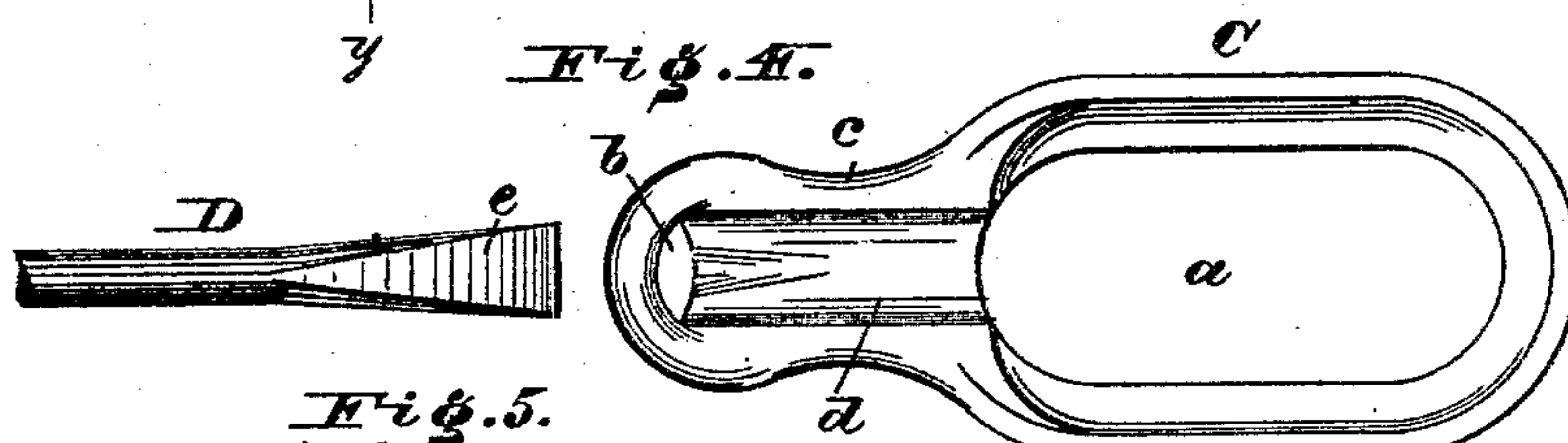


Fig. 5.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

JOHN M. KOEBERLE, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO  
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## SAW-ROD.

SPECIFICATION forming part of Letters Patent No. 388,779, dated August 28, 1888.

Application filed April 7, 1888. Serial No. 269,910. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN M. KOEBERLE, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Saw-Rods, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of a saw-rod which may be tightened and released in a convenient and effective manner, as will be hereinafter fully set forth.

Figure 1 represents a side elevation of a saw having a rod embodying my invention. Fig. 2 represents a top or plan view of the rod on an enlarged scale. Fig. 3 represents a section on line *x x*, Fig. 2, on an enlarged scale. Fig. 4 represents a top or plan view of a portion of Fig. 3, the parts being in a different position. Fig. 5 represents a section on line *y y*, Fig. 3.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A represents a buck-saw, which, excepting the features of my invention applied thereto, is of usual construction.

B represents the saw-rod, the same consisting of the yoke C, screw-rods D, and buckle E, said yokes being fitted on the frame-pieces of the saw, said rods interlocking at one end with said yokes and being engaged at the other end by the buckle E. The yokes are preferably made of cast metal, and each yoke has a loop, *a*, and an eye, *b*, which are at opposite ends thereof, the eye *b* being turned up or extending angularly to the loop *a*. Between the loop and eye is a neck, *c*, whose upper face is grooved, as at *d*. The portion of the groove *d* adjacent to the eye is recessed, as at *d'*, to permit the passage of the rounded or shank portion of the rod D through the said eye. Each rod has one end widened and flattened, forming a flare, *e*, and the other end is screw-threaded for the connection of the buckle.

The operation is follows: The rods are passed through the yokes and their threaded ends partly screwed to the buckle. The yokes are fitted on the frame pieces of the saw and the buckle turned, whereby the flares are fully drawn into the eye *b* and interlocked therewith, the several parts being firmly tightened, whereby the saw-frame is effectively stiffened and strained. The flares *e* prevent the rods D from rotation, and as they rest in the grooves *d* the walls of the latter prevent lateral motions of the rods, and consequently distortion of the saw-frame.

When the buckle is unscrewed, the several parts may be removed and separated.

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

1. A saw-rod consisting of yokes, rods with flaring ends, and a buckle, each of the yokes having a loop adapted to embrace one of the frame-pieces of the saw, an eye the walls of which engage the flaring ends of the rods, and a neck which connects said yoke and eye and has the end of a rod seated on its face, said parts being combined substantially as described.

2. The combination of the yokes, each with an upturned eye and a grooved neck having a recess therein, the rods having flaring ends, and a buckle, substantially as described.

3. The combination of the yokes C, each having a loop part, *a*, an eye, *b*, connected by the neck *c* to said loop *a* and turned up as to said loop, the neck *c* having on its upper face the groove *d*, the buckle E, and rods D, each screw-threaded at one end and flaring, as at *e*, at the other end, substantially as and for the purposes described.

JOHN M. KOEBERLE.

Witnesses:

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A. P. JENNINGS.