

A. MORGAN.
SAW-SET.

No. 175,617.

Patented April 4, 1876.

Fig. 1.

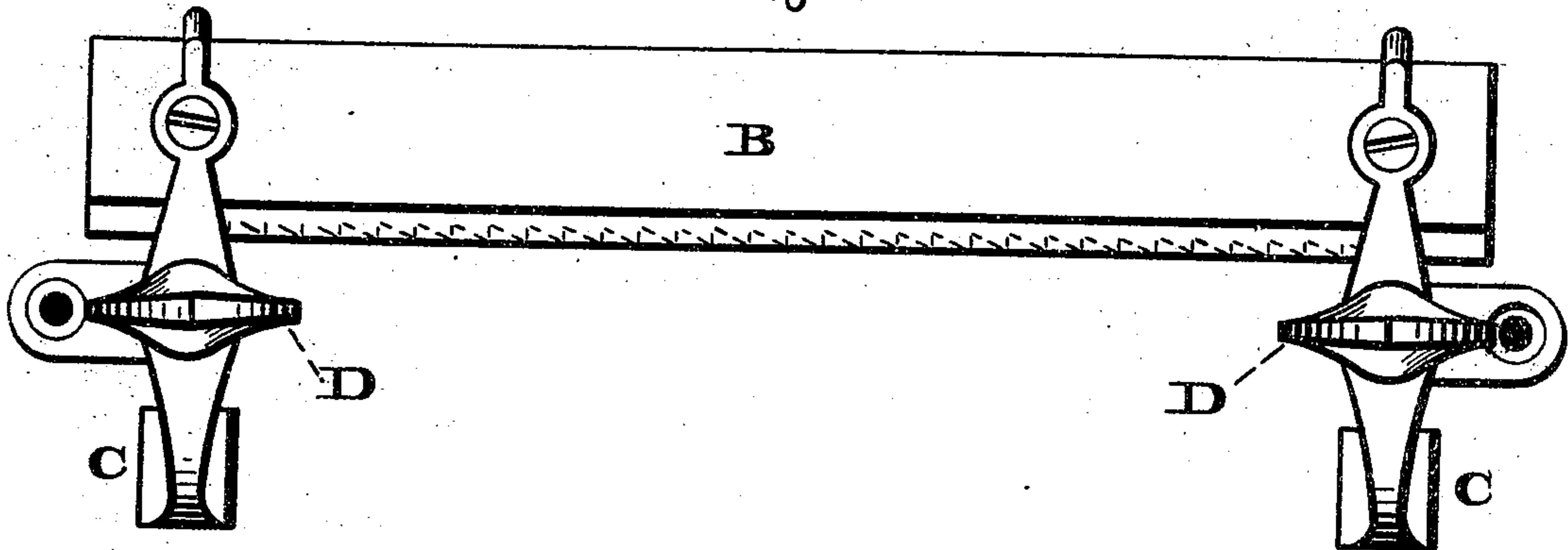


Fig. 2.

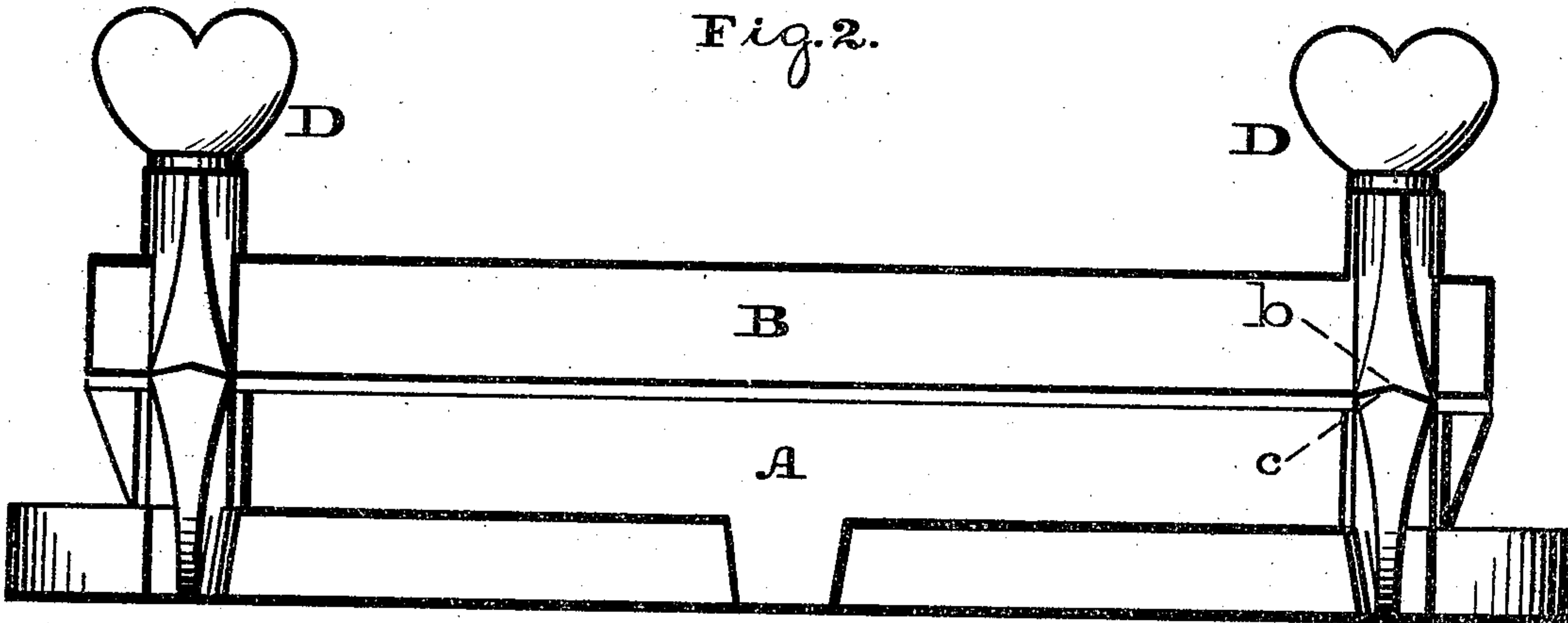
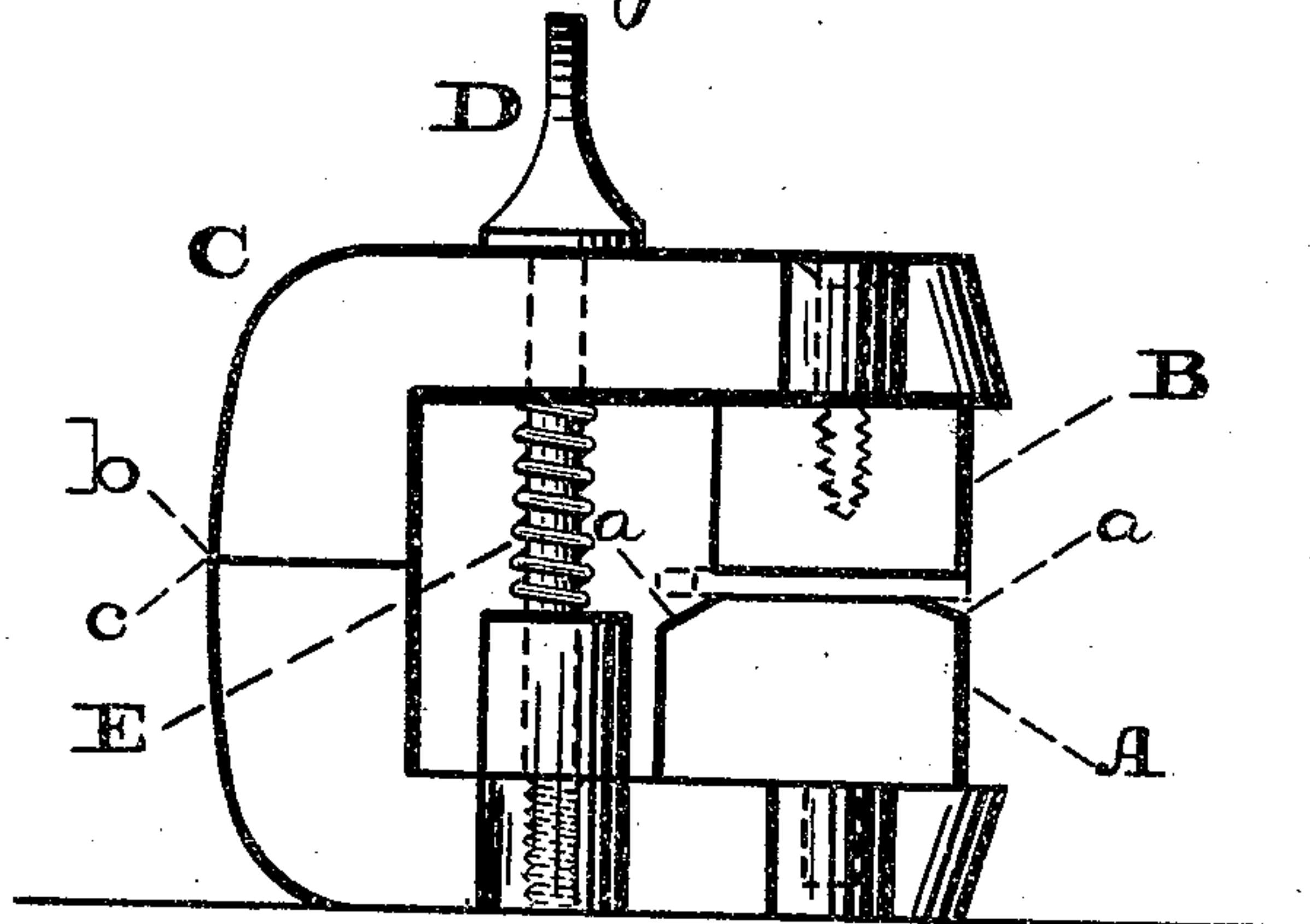


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

ABBOTT MORGAN, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN SAW-SETS.

Specification forming part of Letters Patent No. **175,617**, dated April 4, 1876; application filed March 8, 1876.

To all whom it may concern:

Be it known that I, ABBOTT MORGAN, of the city and county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in Saw-Sets; and I do hereby declare the following to be a clear and exact description of the nature thereof, sufficient to enable others skilled in the art to which my invention appertains to fully understand, make, and use the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a top or plan view of the device embodying my invention. Fig. 2 is a front view thereof. Fig. 3 is an end view thereof.

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

My invention consists of a bed and clamping-bar, held together by clamps, which are constructed in parts, with tongue-and-groove connection, and separated by springs, whereby the saw-blade may be held easily, firmly, and uniformly at all points, and the clamps open in right lines so that the saw may be readily removed and introduced during the setting operation without necessarily separating the bed and bar to any great extent.

Referring to the drawings, A represents the bed, on the upper face of which, at both sides, there is a slope or level, *a*; and B, the clamping-bar, which is arranged above the bed, between which and the bar the saw-blade is to be held. C represents clamps for clamping the bed A and bar B. Each clamp is made in two parts, which are fitted together by V-shaped tongue and groove *b c*, and one part is attached to the bed A and the other to the bar B, and a screw, D, is passed through the two parts for bringing them together and

thereby clamping the bed and bar with the saw-blade between them.

In order to open the two parts of the clamp, there is interposed a spring, E, which, when the screw D is loosened, separates said parts, thus removing the pressure on the bed and bar and permitting the removal of the saw-blade.

The operation is as follows: The screws D will be loosened and the saw-blade introduced between the bed and bar so that the teeth rest over the inner bevel *a*. The screws are then tightened, and the alternate teeth will then be set in well-known manner; the screws are then loosened, the saw-blade reversed, the screw tightened, and the other teeth are set.

It will be seen that when the two parts of the clamp open, the upper part moves in a right line, so that the space between the bed and bar will be the same at their inner and outer ends, and the set-teeth offer no obstruction to the withdrawal of the saw-blade or the subsequent return thereof. The V-shaped tongue-and-groove connection *b c* permits the right-lined separation of the two parts of the clamp, and also prevents lateral displacement of the parts.

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

The bed A and bar B, in combination with the clamps C, formed in parts with tongue-and-groove connection *b c*, and the spring E, substantially as and for the purpose set forth.

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Witnesses:

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