

(No Model.)

H. ROBINSON.  
PIANO ATTACHMENT.

No. 594,651.

Patented Nov. 30, 1897.

Fig. 1.

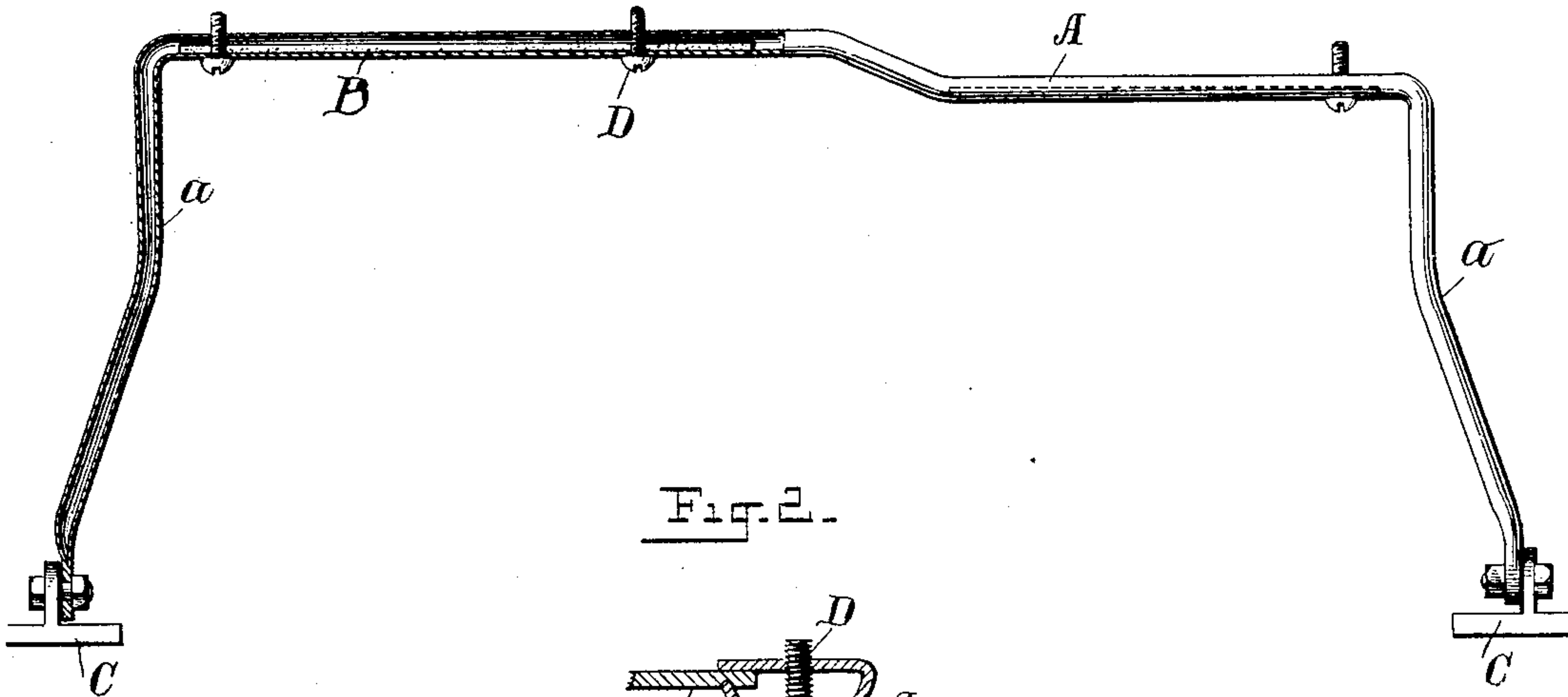


Fig. 2.

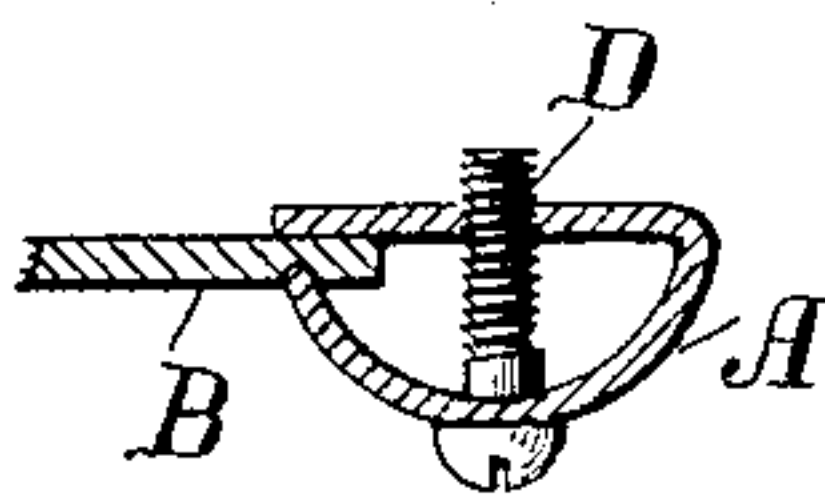


Fig. 3.

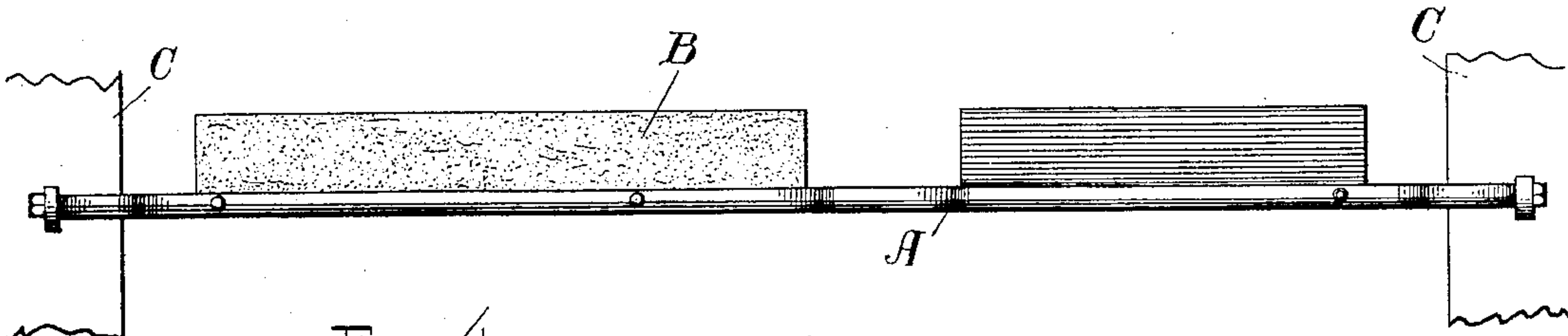
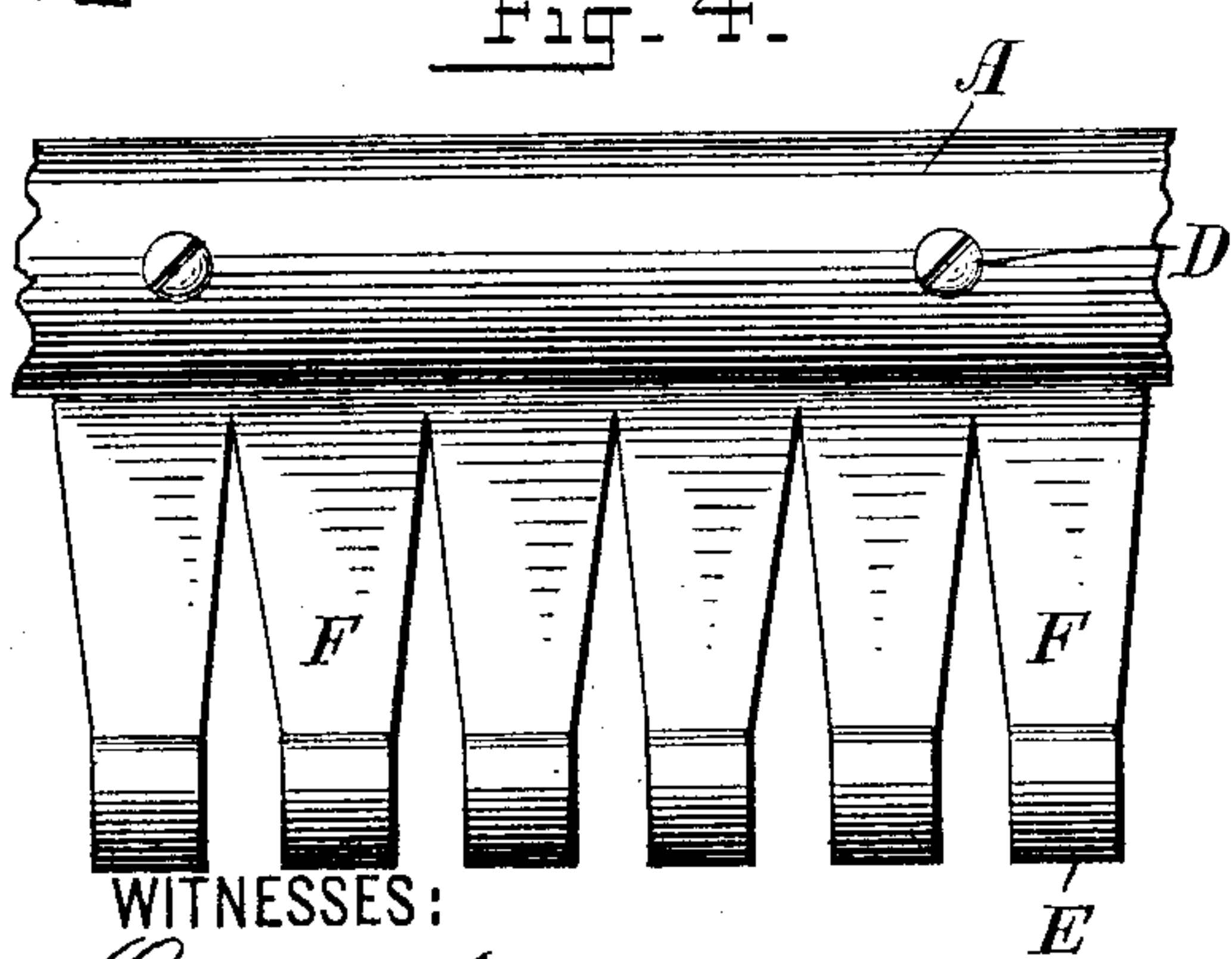


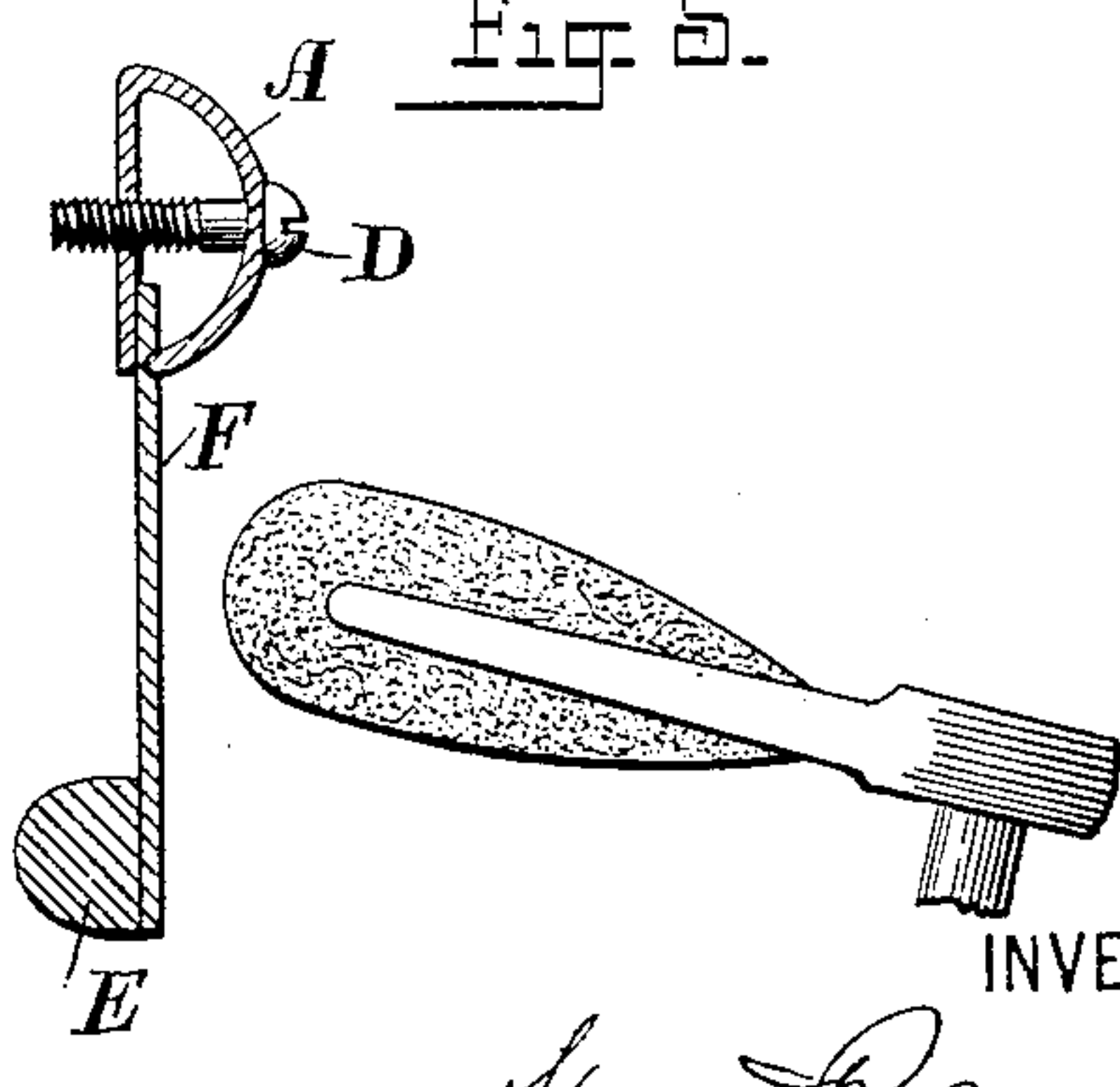
Fig. 4.



WITNESSES:

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Fig. 5.



INVENTOR

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# UNITED STATES PATENT OFFICE.

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## PIANO ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 594,651, dated November 30, 1897.

Application filed February 10, 1897. Serial No. 622,781. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY ROBINSON, a citizen of the United States, residing at New York, in the county and State of New York, have invented certain new and useful Improvements in Piano Attachments, of which the following is a specification.

This invention relates to improvements in piano attachments of the kind in which a tone changing or muffling device is attached to a movable support or holder and is let down into operative position or withdrawn as desired; and the object of my invention is to provide a holder for such a device which while of sufficient stiffness and strength is much lighter than those now in use, so that it can be let down into place easily, softly, and without jar.

My improved construction also provides a simple and efficient means for clamping the muffling or tone-changing device to the bar without the use of cement or glue of any kind, thus materially facilitating the fastening and removal of same.

These objects I accomplish by making the holder or support of thin metal in the form of a hollow bar with a narrow slit along one side, in which the tone changing or muffling device is clamped.

In the accompanying drawings, which form a part of this specification, Figure 1 is a partly-sectional elevation of my improved holder shown as applied to a muffler-strip. Fig. 2 is a section at right angles to Fig. 1. Fig. 3 is an elevation at right angles to Fig. 1. Fig. 4 is an elevation of a portion of the holder shown as applied to a tone-changing device, as a mandolin attachment. Fig. 5 is a section at right angles to Fig. 4.

A represents the holder or clamping bar for the tone muffling or changing device. As shown, it consists of thin metal, preferably in the form of a half-round, and bent at its ends to form the side arms *a*, by which it is pivoted to the piano-frame C, so as to allow it to be raised or lowered as desired. This clamping-bar is preferably made from a strip of sheet metal which is bent to form a half-round hollow bar, with its edges nearly meeting at one side, leaving a narrow slit which serves for holding or clamping the tone-changing device.

The bar may, however, be formed in any suitable manner, as by flattening and bending a piece of thin tubing and forming a slit in one side thereof or in other ways.

In Figs. 1, 2, and 3 I have shown the improved holding or clamping bar used to support a muffler-strip B, one edge of which is inserted in the aforesaid narrow slit in the side of the bar and clamped therein and between the edges thereof. The natural spring of the bar may be made partially effective in holding the strip B in place; but I make the attachment secure and yet readily releasable when desired by means of screws or bolts D, which pass through holes in the hollow bar A, and are screwed up as tight as may be necessary.

My invention is applicable to any other tone-changing device having a shiftable support or holder. Thus in Figs. 4 and 5 it is shown applied to a "mandolin attachment" or device for changing the tone of the piano by interposing a hard hammer or tappet between the soft hammer and the wire. The tappets (shown at E in Figs. 4 and 5) are attached to hanging flaps or leather strips F, and the upper edge of said flaps or strips are held in the slit in the side of the bar A, bolts or screws D being used to compress the bar and tighten its hold on the leather strip.

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

1. In a piano attachment, the combination with the tone muffling or changing device, of a clamping-bar formed of thin metal and having a flat portion and a half-round portion between which said device is clamped, and screws engaging with said flat and half-round portions and compressing them together.

2. In a piano attachment, the combination with the tone muffling or changing device, of a hollow clamping-bar formed of thin metal having a slit at one side in which said device is held, and screws or bolts compressing the bar to clamp said device in place.

HENRY ROBINSON.

Witnesses:

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M. V. BIDGOOD.