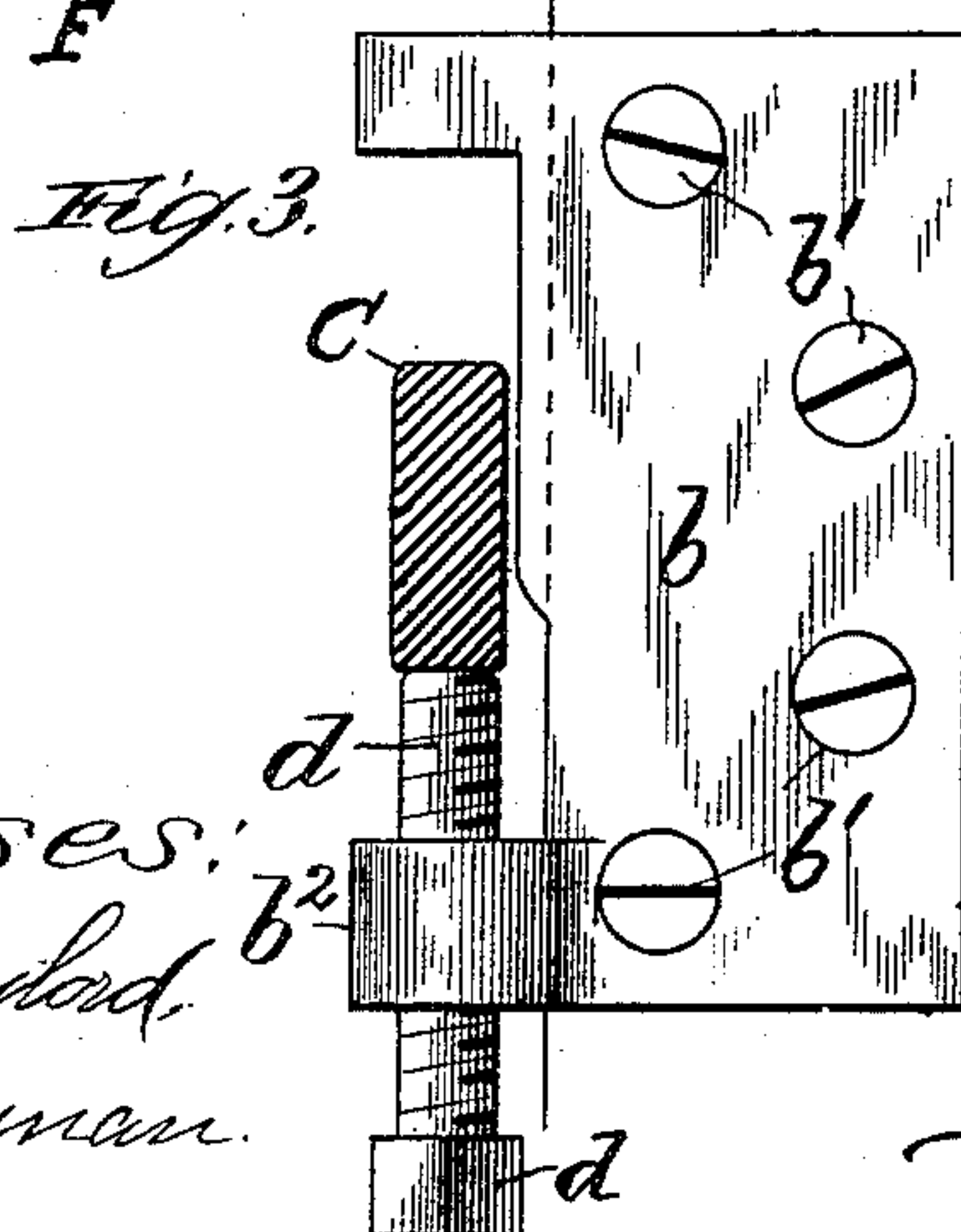
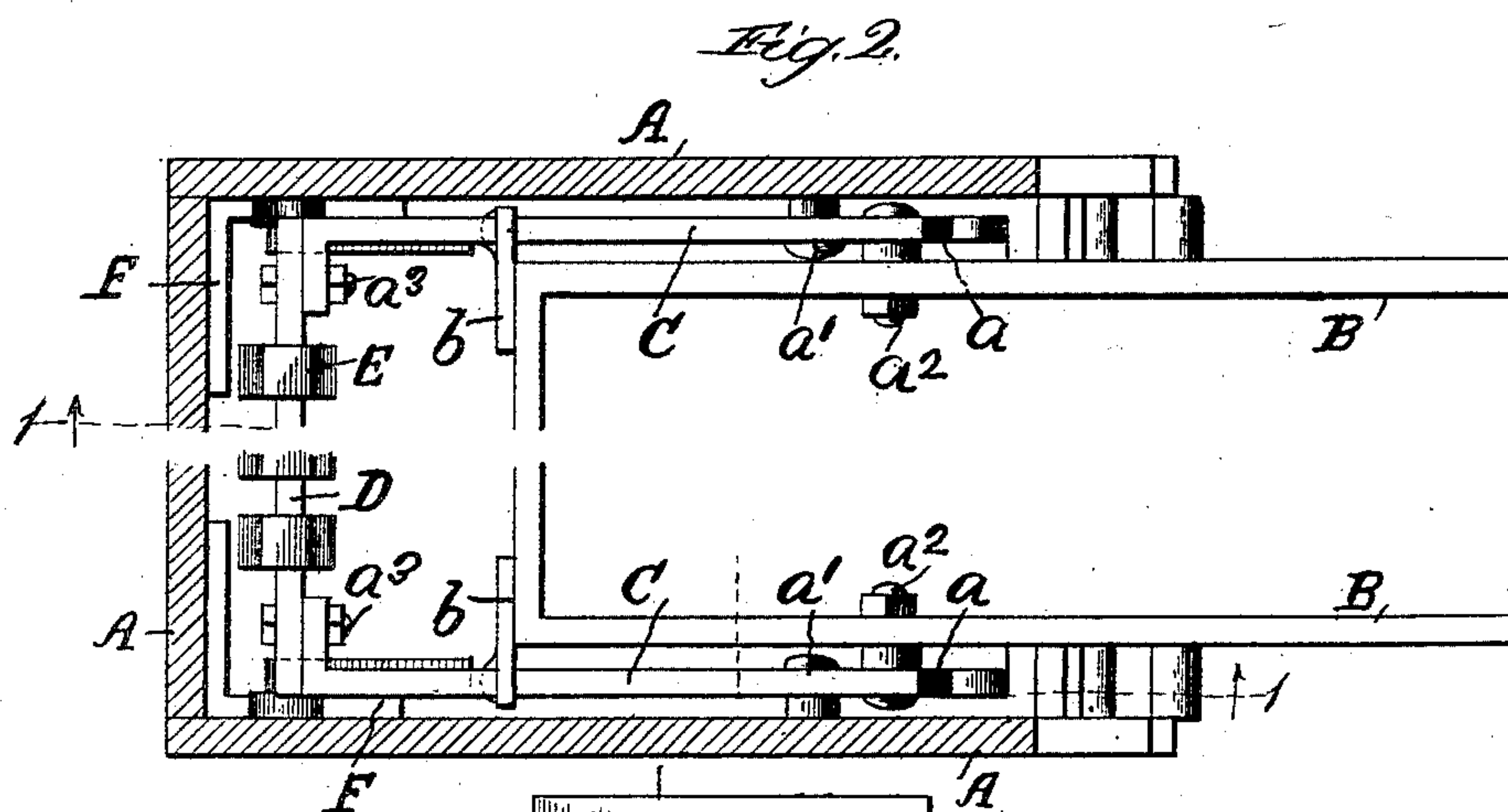
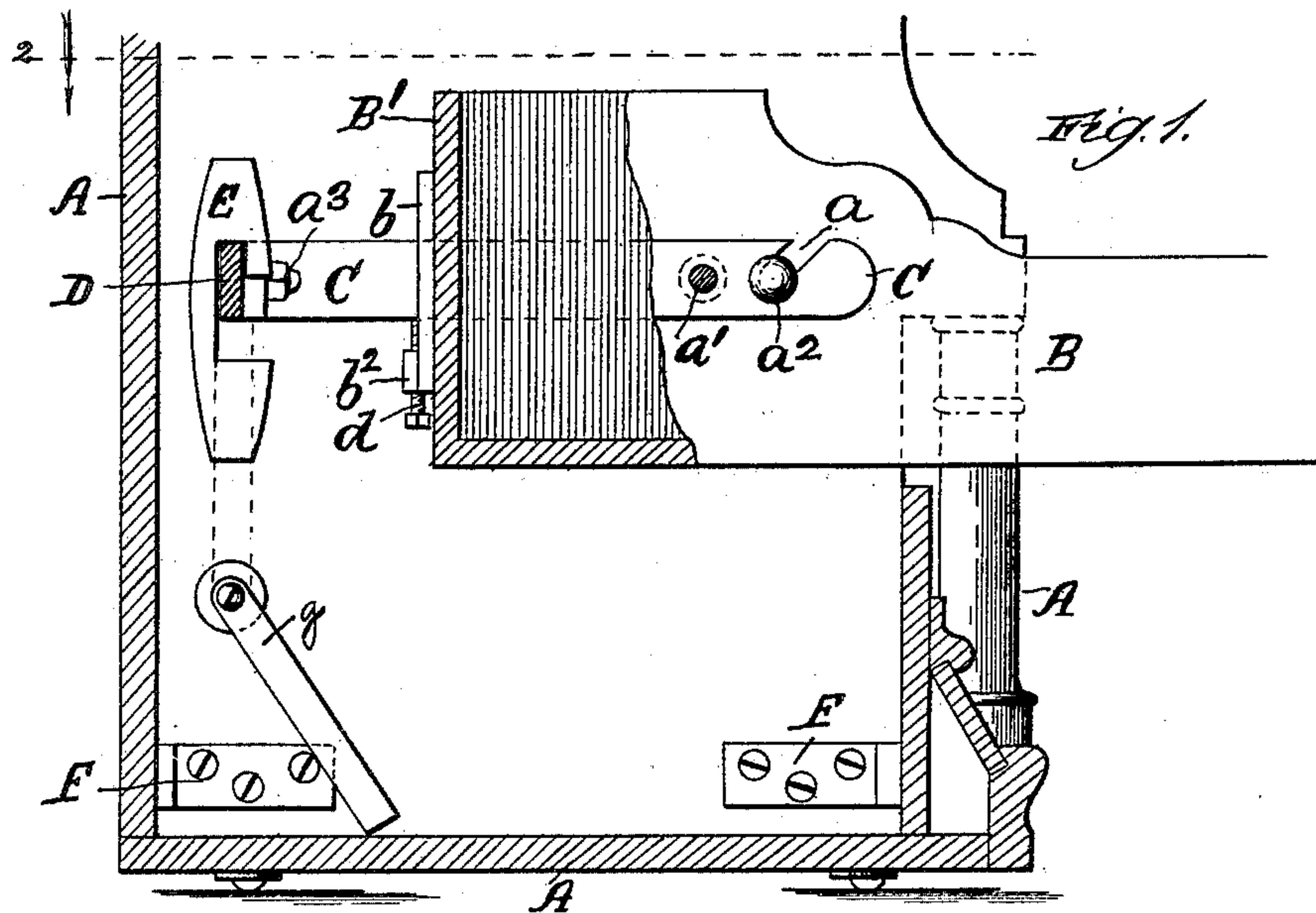


Patented Nov. 10, 1891.



Witnesses:  
 Chas. E. Gaylord.  
 L. M. Freeman.

Inventor:  
Wm J. Mayer.  
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Attys—



# UNITED STATES PATENT OFFICE.

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## FOLDING BED.

SPECIFICATION forming part of Letters Patent No. 462,846, dated November 10, 1891.

Application filed February 11, 1890. Serial No. 339,979. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM J. MAYER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in a Folding Bed, of which the following is a full, clear, and exact description, that will enable others to make and use the same, reference being had to the accompanying drawings, forming a part of this specification.

This invention relates more especially to an improvement on the device set forth in Letters Patent No. 373,599, and has for its object to provide means for adjusting the weight-bar in balancing the bed.

No change is made in the construction set forth in the herein-referred-to patent, the improved features of this invention being simply added. The description will therefore be confined to the new features and the parts related thereto.

Figure 1 is a broken-away vertical section in plane 1, Fig. 2, looking in the direction indicated by the arrow; Fig. 2, a horizontal section in plane 2, Fig. 1. Fig. 3 is a detached detail showing one of the movement-levers in section.

Referring to the drawings, A represents the inclosing case or cabinet, B B the side rails, and B', the head-board. The two levers C C are placed on each side of the bed between the rails and the sides of the inclosing case, as shown in Fig. 2. The inner or bearing ends of the movement-levers are provided with the diagonal notch or recess *a*. The bearing-pins *a'* *a'* are rigidly secured in the inclosing case and pass through the movement-levers C C and support the front ends of the same in proper relation thereto. The pivot-pins *a*<sup>2</sup> *a*<sup>2</sup> engage loosely with the diagonal notch or notches *a*. The rear end of the levers C C are turned inwardly at right angles and are rigidly secured to the transverse weight-bar D by the bolts *a*<sup>3</sup>, as shown in Fig. 2. The bracket-plates *b* *b* are rigidly secured by the screws *b'* to the rear side and ends of the head-board. These plates are provided on their lower ends with the laterally-projecting lug *b*<sup>2</sup>, (see Figs. 1 and 3,) which is screw-threaded for the reception of the correspondingly-screw-threaded adjusting-bolts *d*, the

upper ends of which bear against the under side or edge of the movement-levers C C, whereby said levers and the weight-bar D, secured to the rear ends of the same, may be raised or lowered for the purpose of balancing the bed without adding to or removing any of the weights. By this arrangement the movement of the bed can be conveniently regulated to a nicety and prevented from closing with a slam or dropping too heavily when opened out.

Folding beds without means for maintaining a proper balance generally close with sufficient jar to force out the lower front of the inclosing case.

E represents the weights on the weight-bar.

In each of the respective lower corners of the inclosing case are rigidly secured the angle-braces F, which serve to stiffen and greatly strengthen the structure with reference to the movement of the bed proper.

The companion bars *g*, Fig. 1, are pivoted to the respective interior sides of the casing and may be turned upwardly to engage with the under side of the weight-bar, as indicated in dotted lines, to lock the bed in its open position and also to relieve the bearings of undue strain.

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

1. In a folding bed, the combination, with the stationary section or inclosing case, of the folding section, the companion movement-levers located at each side in a horizontal plane between the case and folding section and having a pivotal connection at their front ends with both, the transverse weight-bar located back of the folding section, to which the rear angle ends of the movement-levers are bolted, and the vertically-arranged adjusting-bolts secured to the head end of the folding sections and bearing against the under side of said lever, whereby the weight-bar may be raised or lowered with reference to the center of equilibrium, substantially as and for the purpose set forth.

2. In a folding bed, the combination, with the stationary and folding sections, of the horizontal movement-levers located at each side of the bed and between said sections and having a pivotal connection with each, the

transverse weight-bar connecting the respective rear ends of said levers at a point between the head and case, the bracket-plates provided on their lower ends with screw-threaded  
5 lugs and rigidly secured to the head-board, and the screw-threaded adjusting-bolts inserted in and through said lugs and bearing

against the under side of the movement-levers back of their longitudinal centers, substantially as and for the purpose set forth.

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Witnesses:

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