

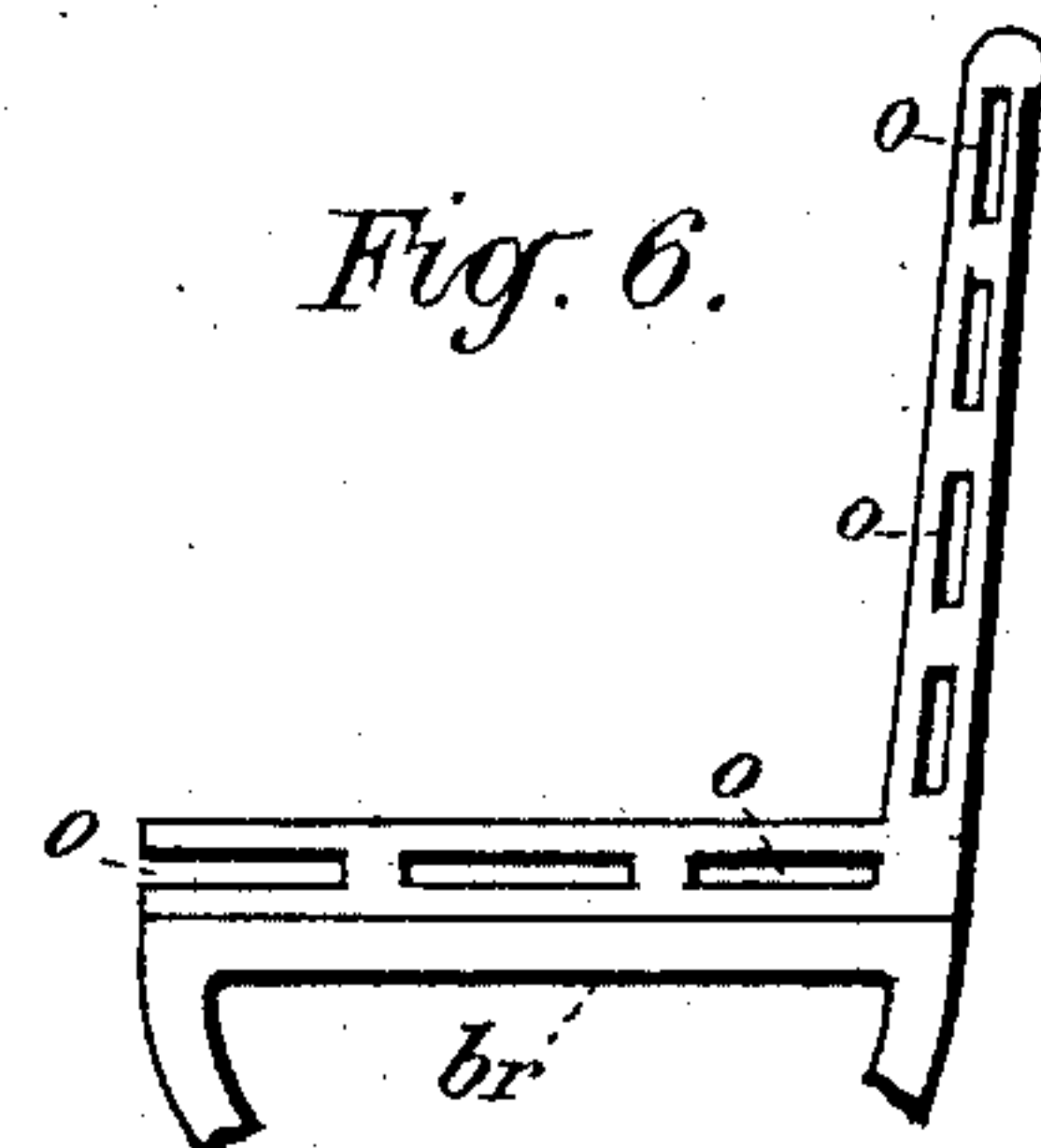
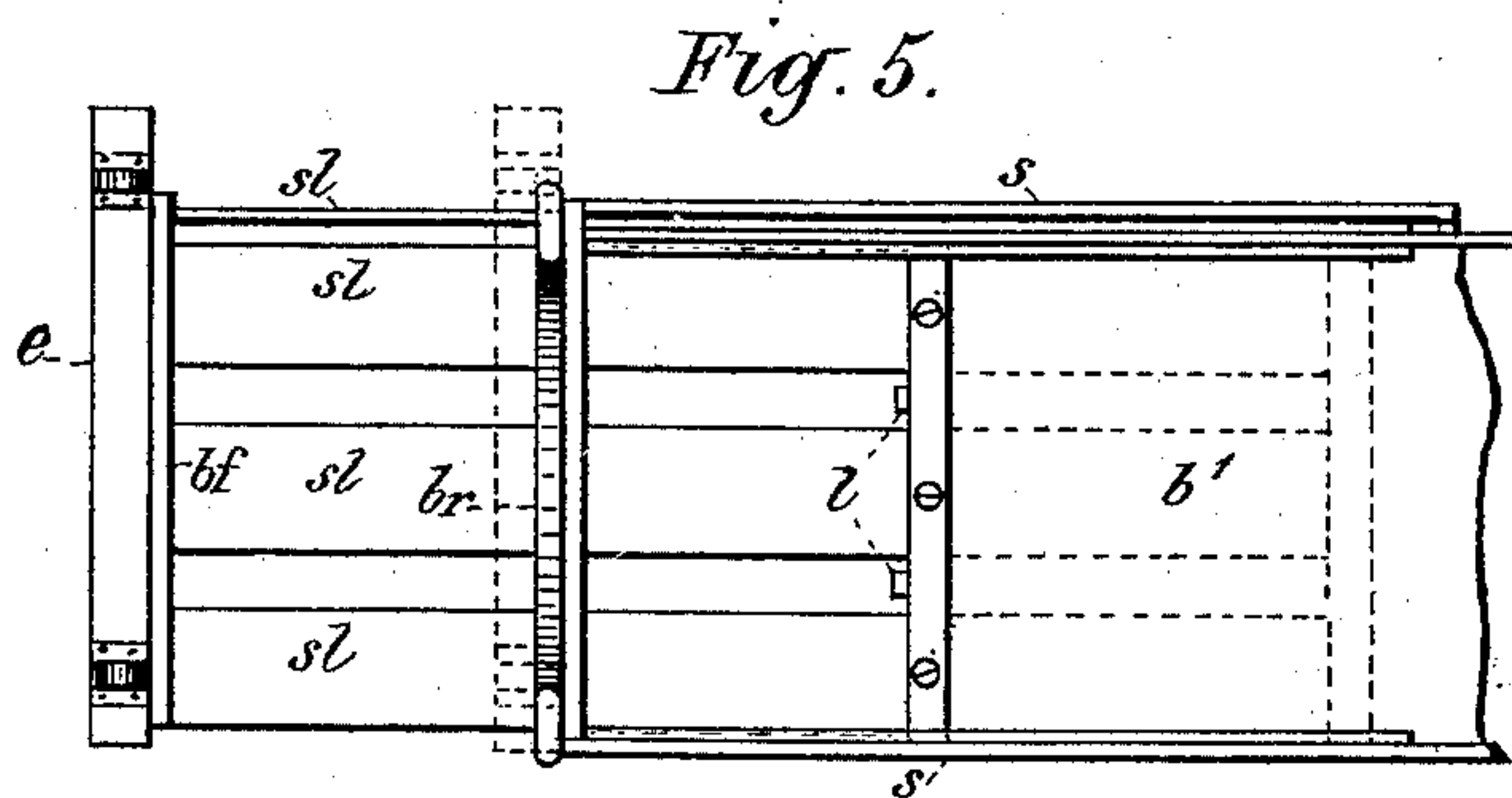
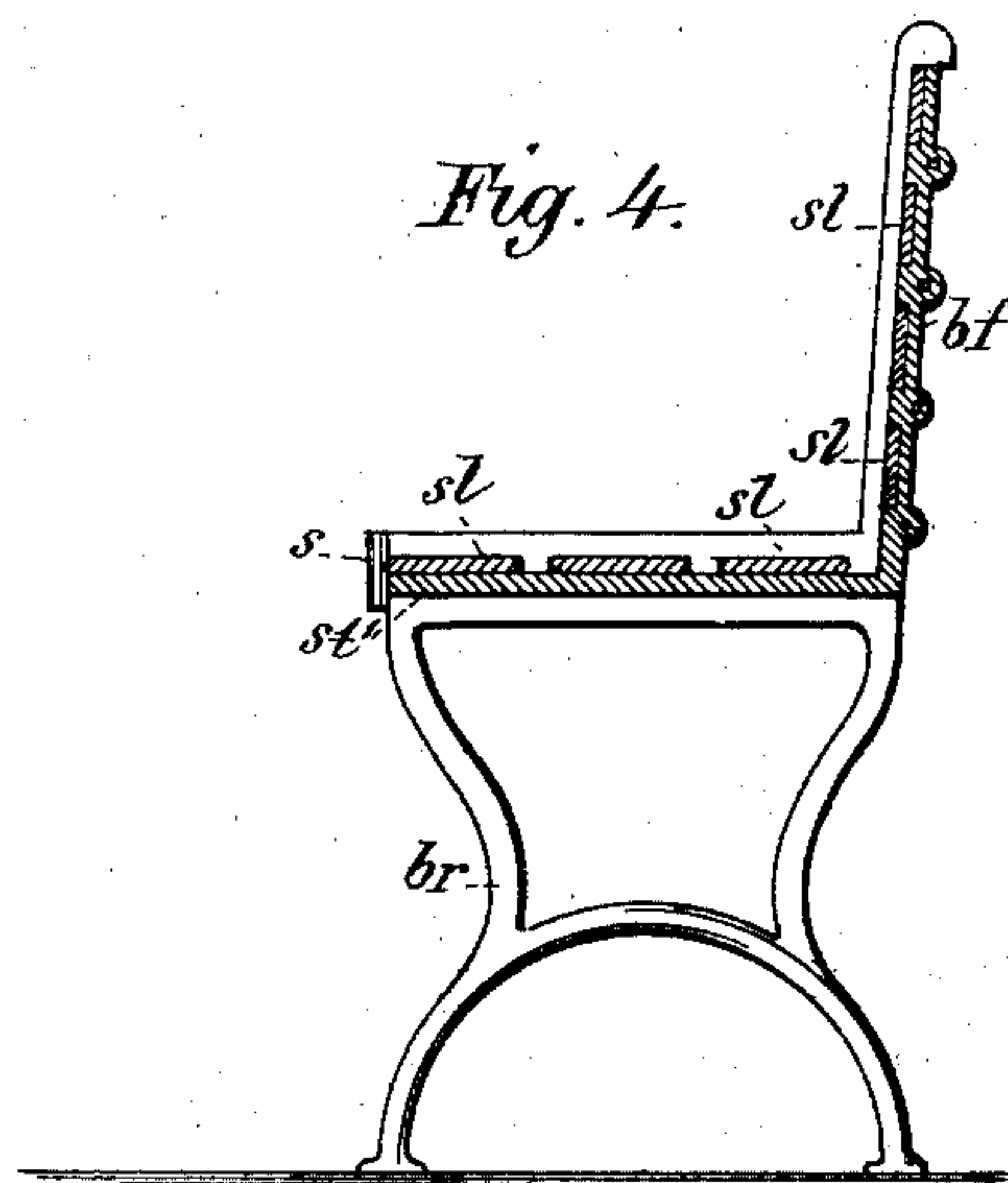
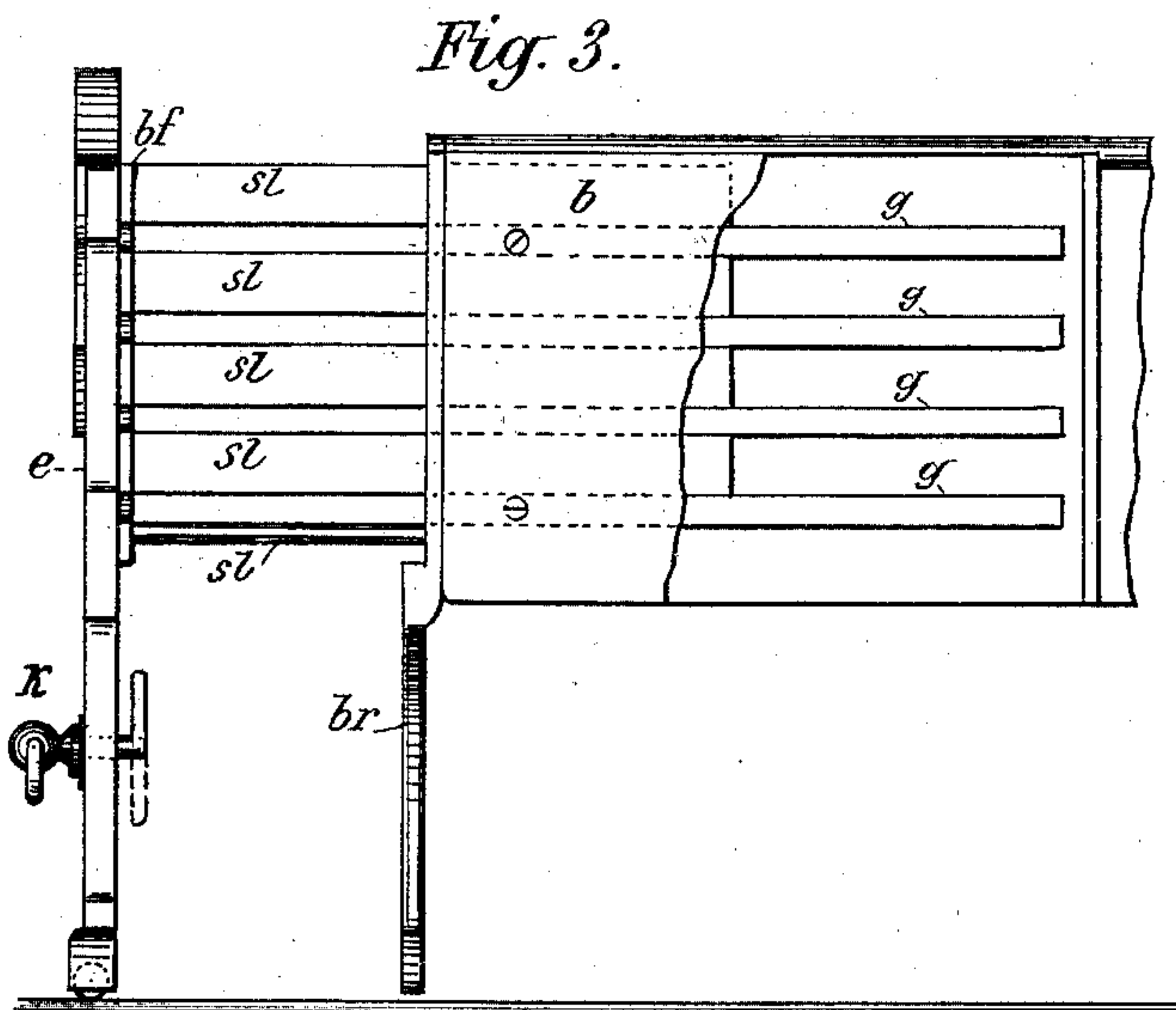
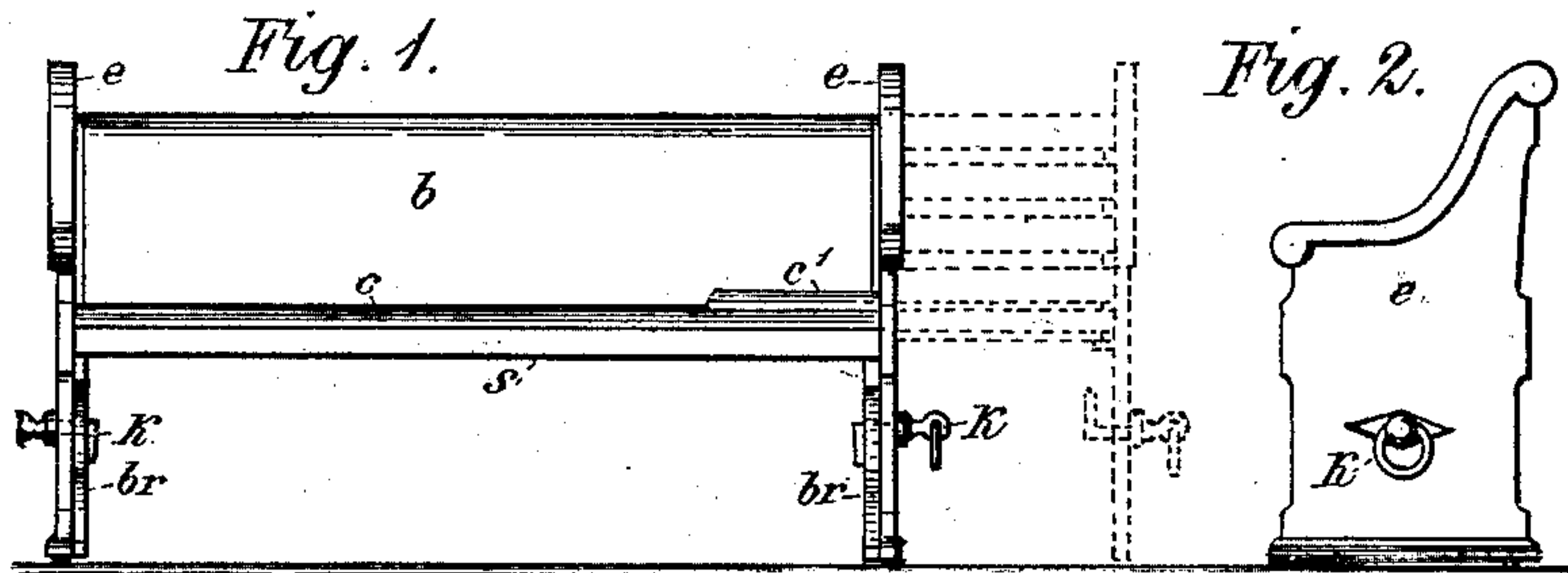
(No Model.)

2 Sheets—Sheet 1.

O. M. MILLER.
EXTENSIBLE SEAT.

No. 371,091.

Patented Oct. 4, 1887.



WITNESSES.

Gustav Bohn.
E. J. Ralston

INVENTOR.

Ora M. Miller.
By C. F. Jacobs
att.

(No Model.)

2 Sheets—Sheet 2.

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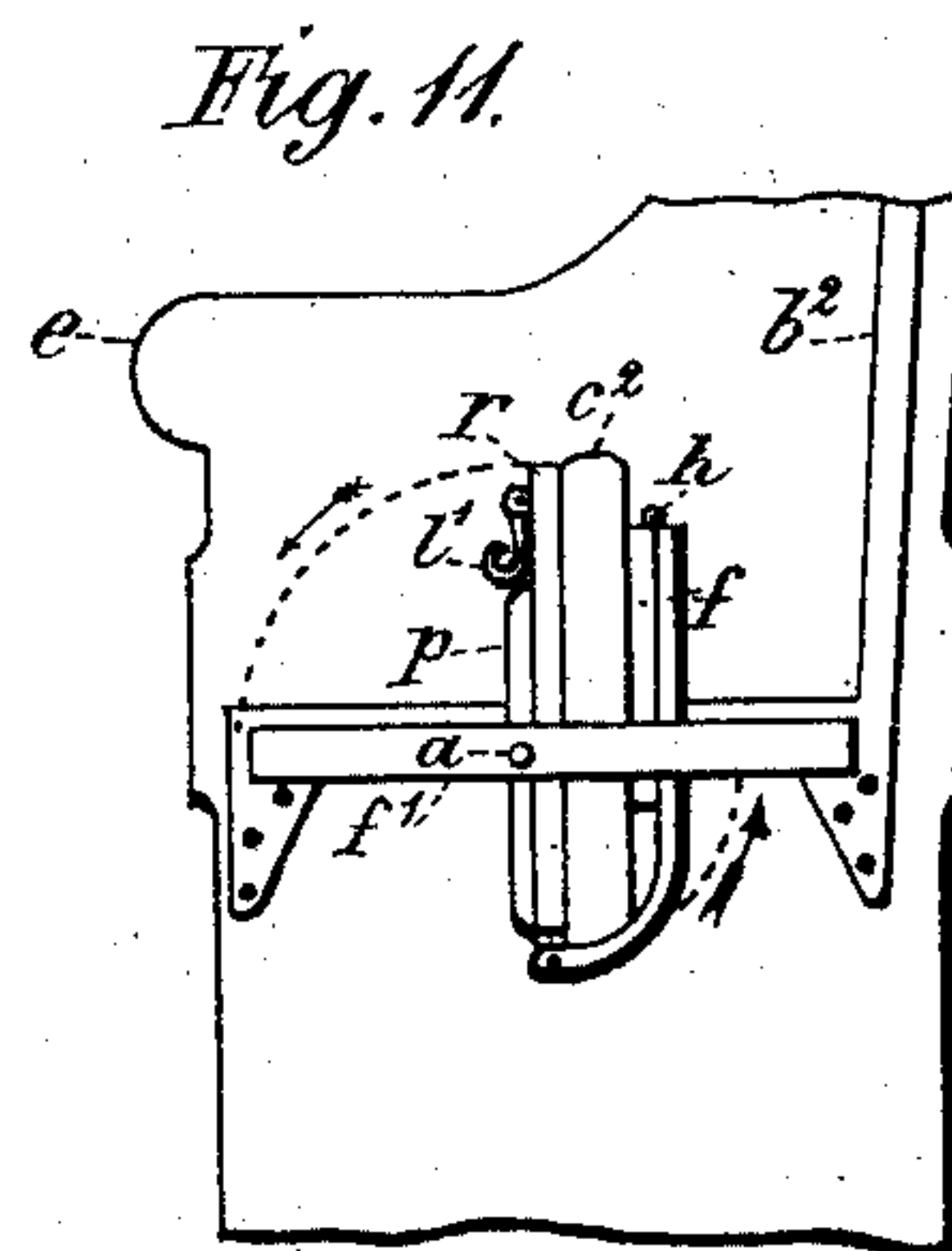
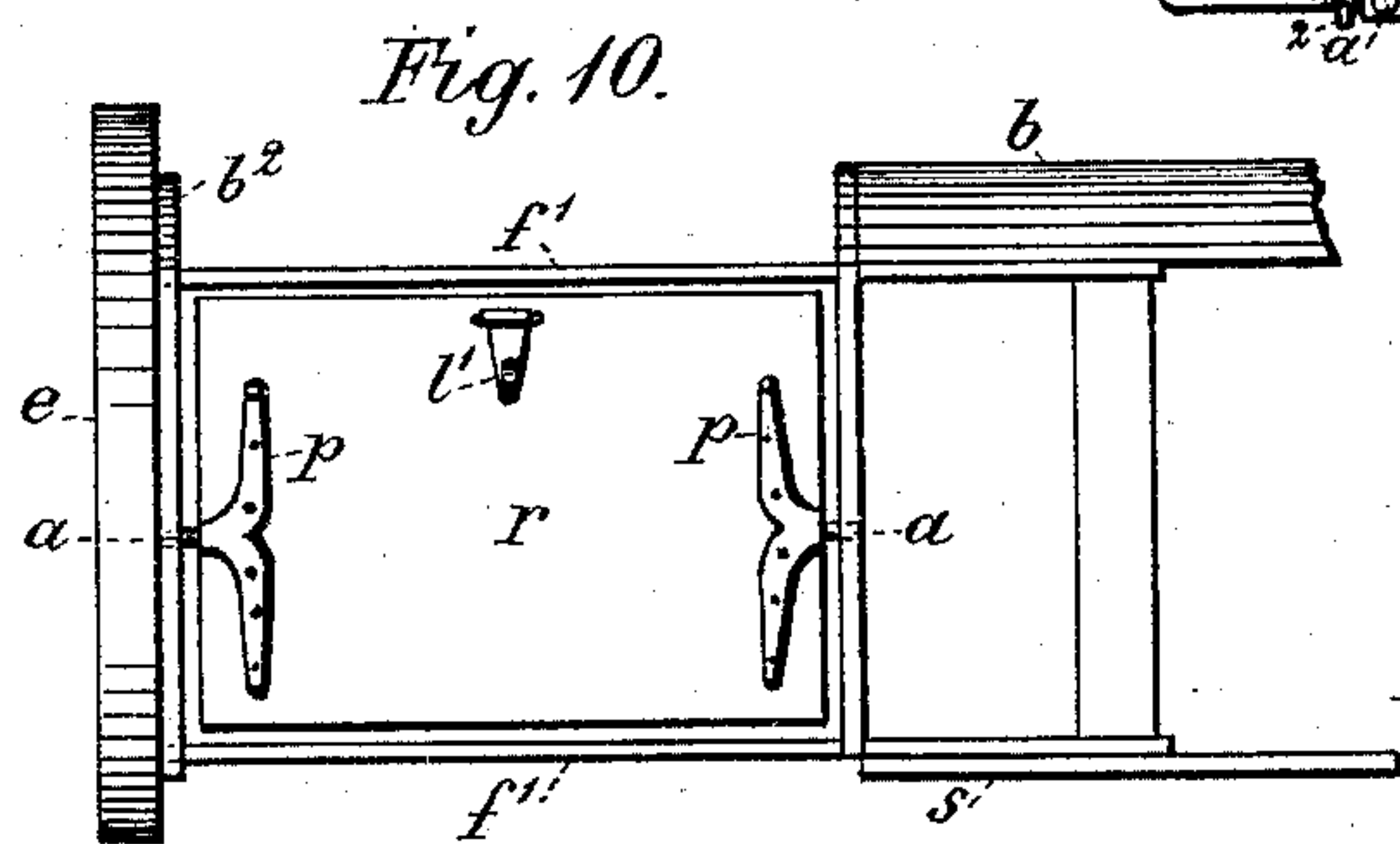
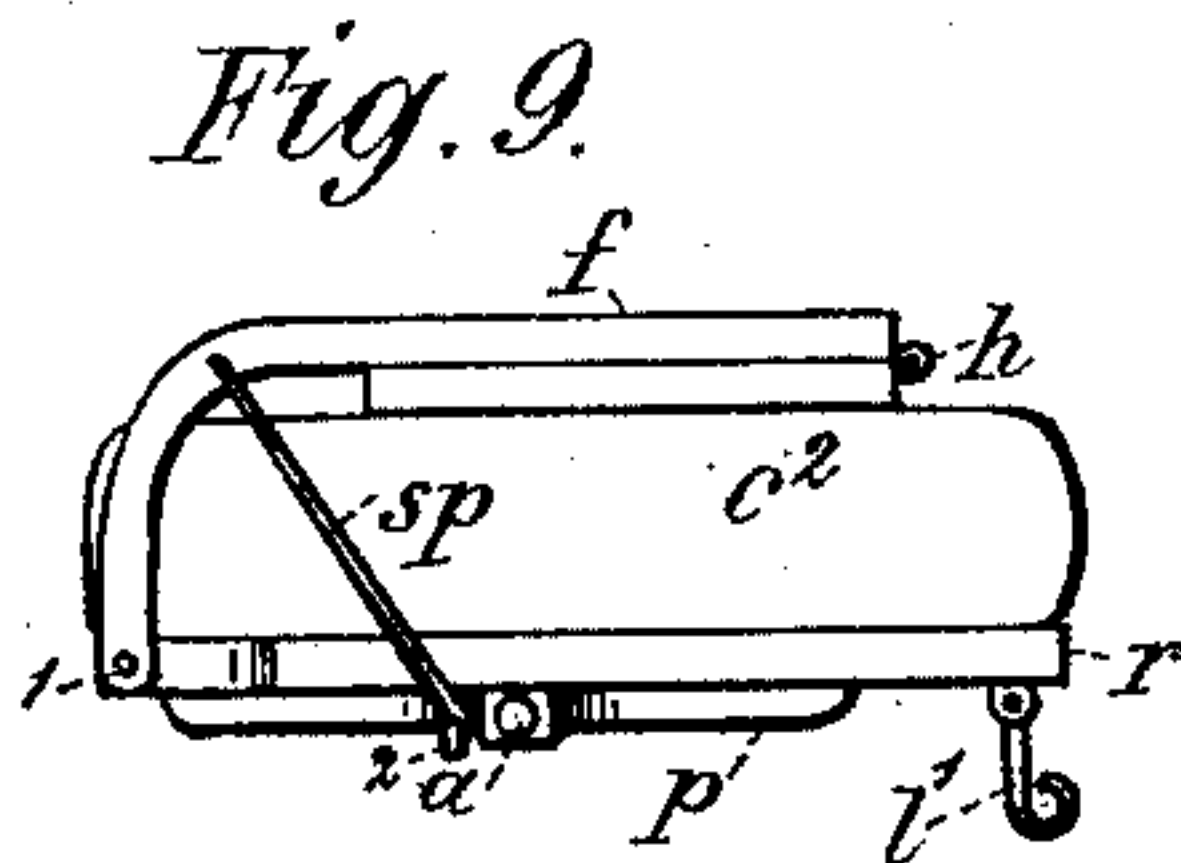
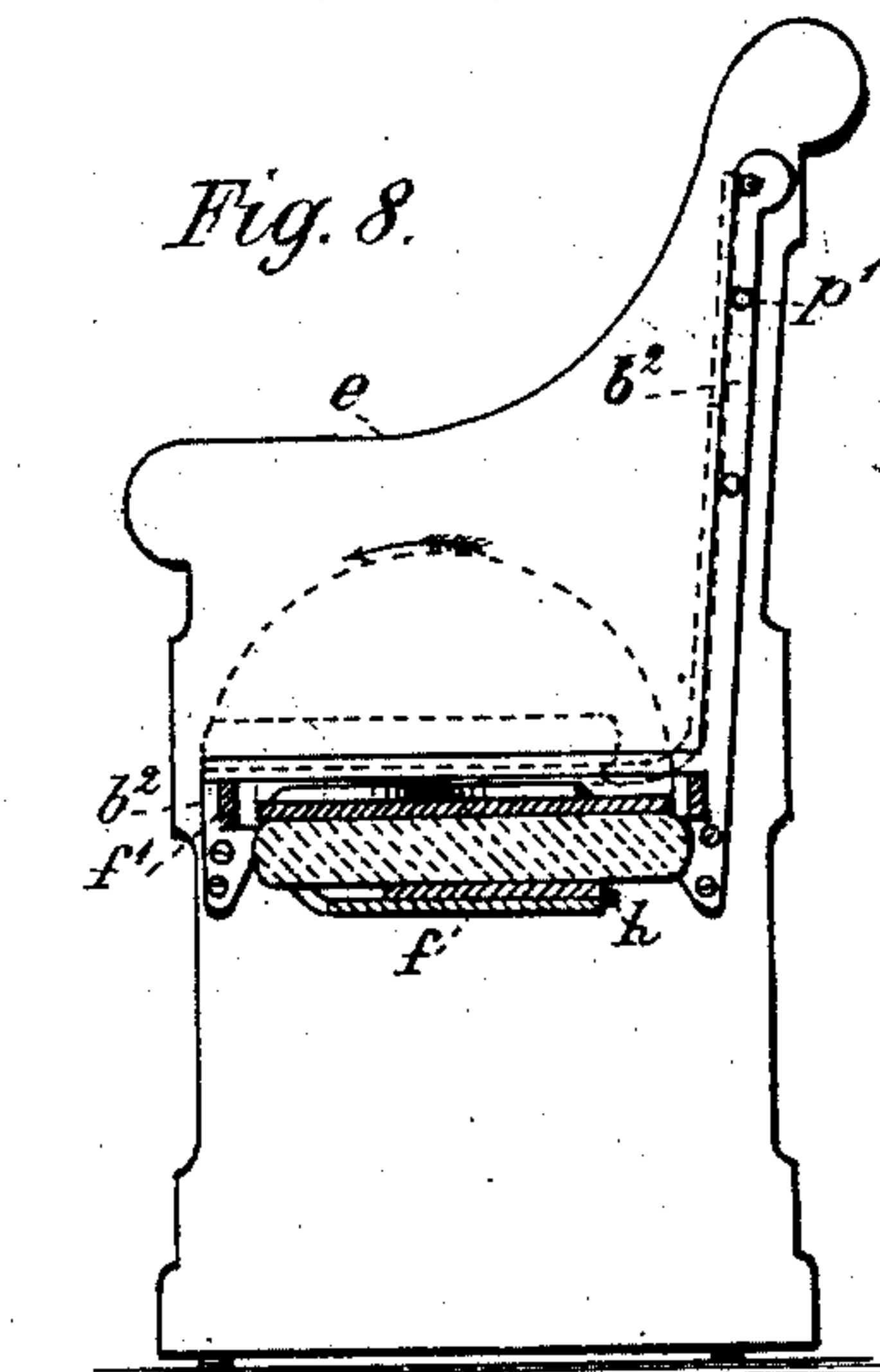
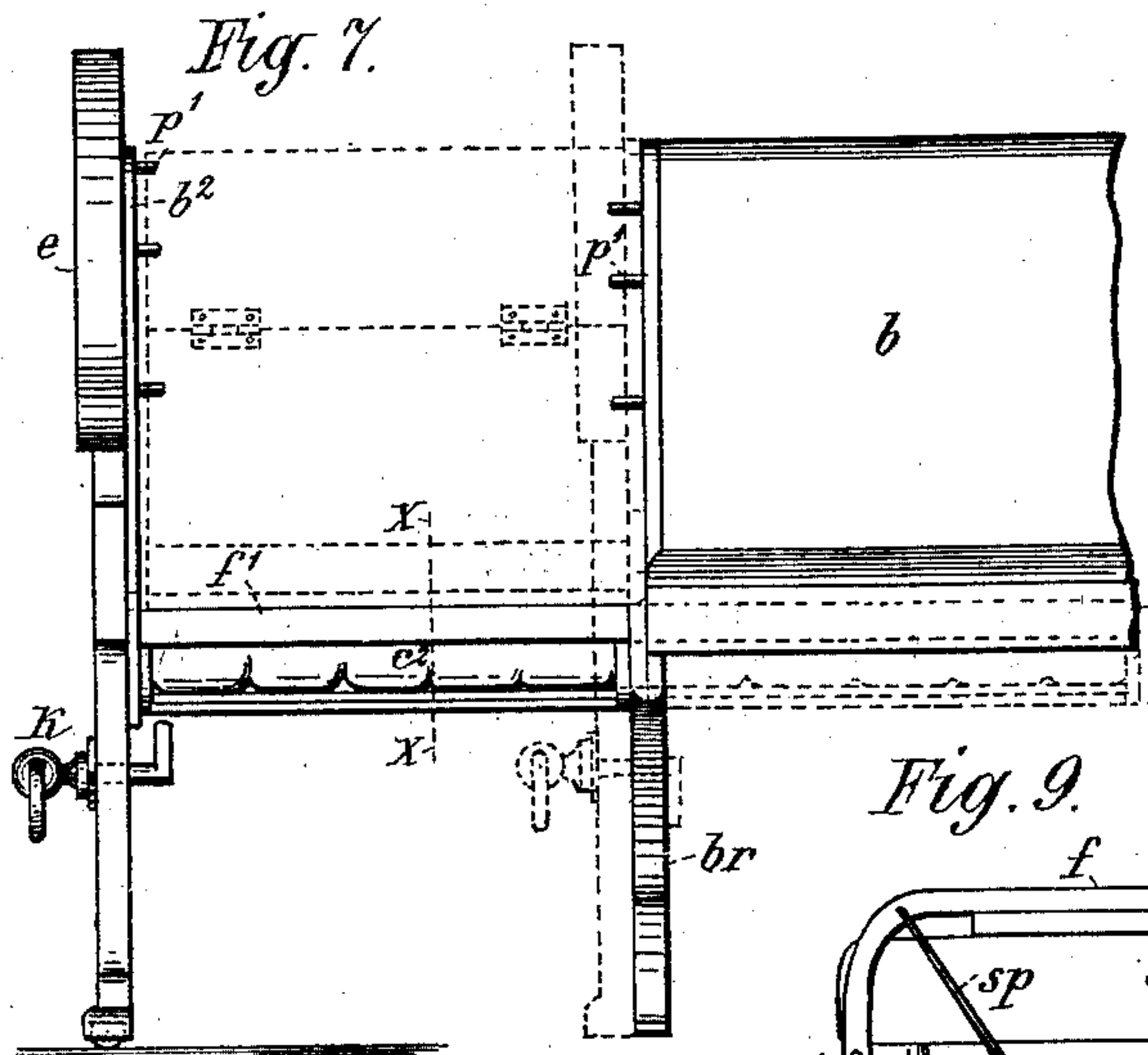


Fig. 12.

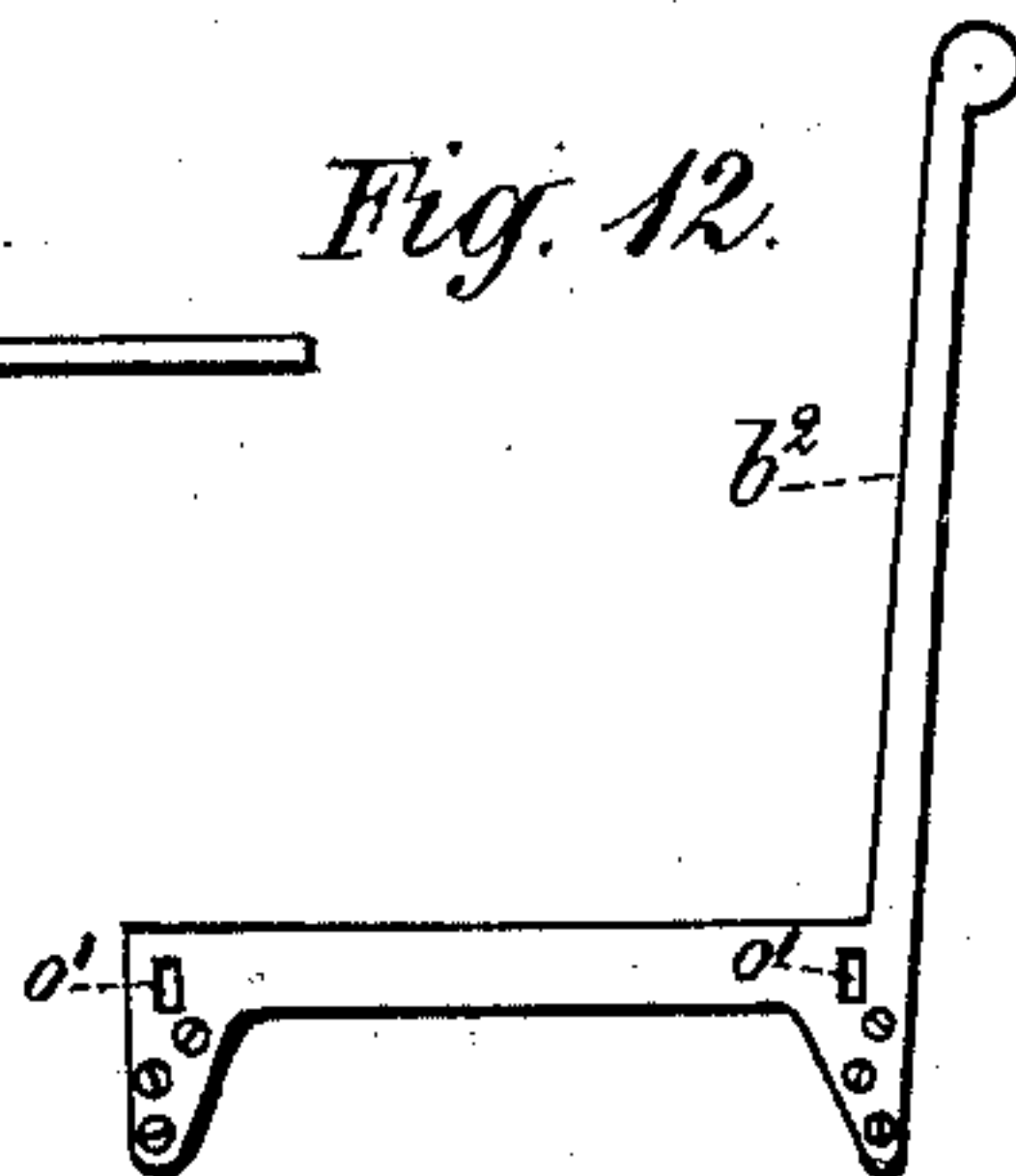
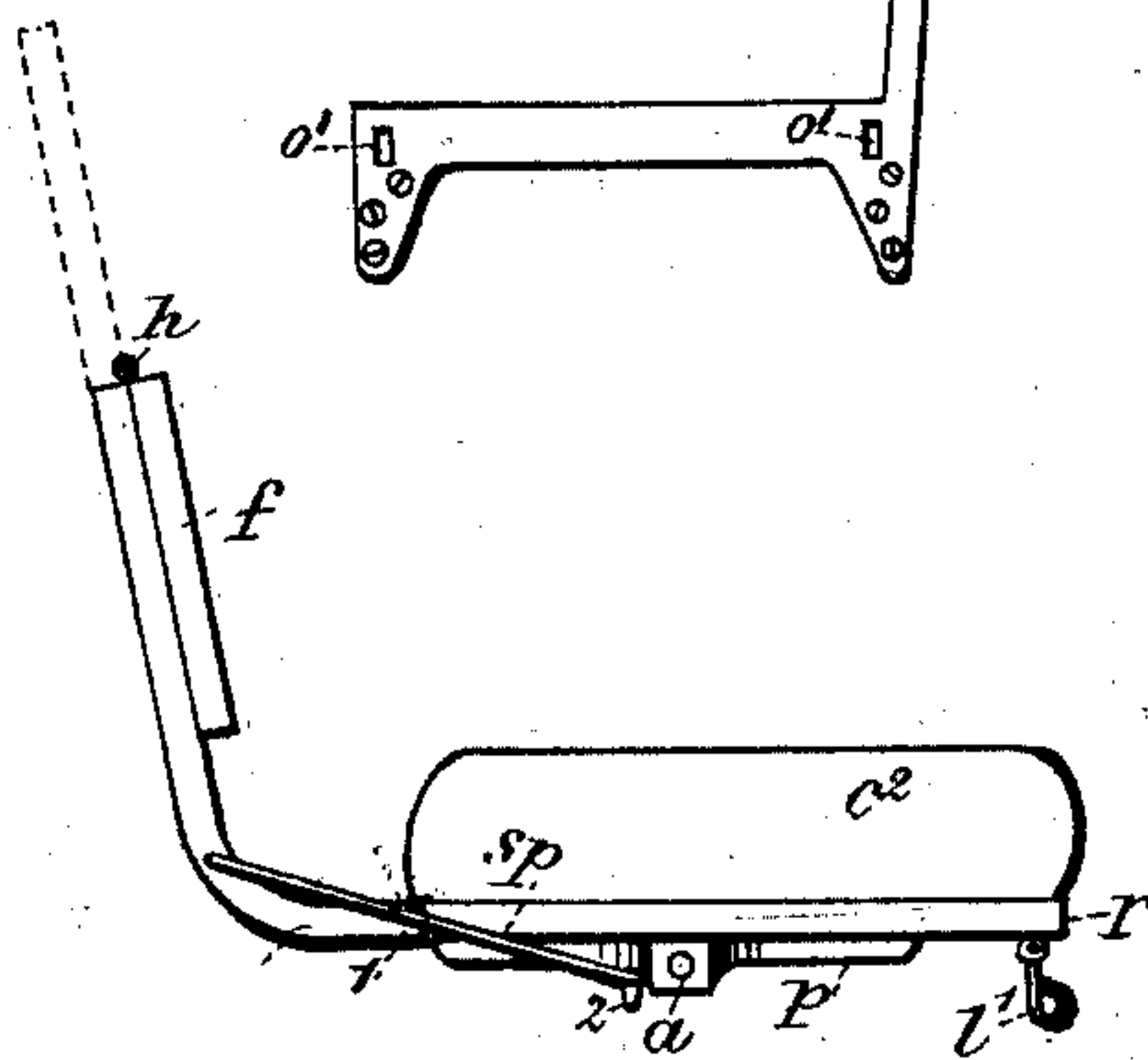


Fig. 13.



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UNITED STATES PATENT OFFICE.

ORA M. MILLER, OF GREENSBURG, INDIANA.

EXTENSIBLE SEAT.

SPECIFICATION forming part of Letters Patent No. 371,091, dated October 4, 1887.

Application filed January 29, 1887. Serial No. 225,923. (No model.)

To all whom it may concern:

Be it known that I, ORA M. MILLER, of Greensburg, county of Decatur, and State of Indiana, have invented certain new and useful Improvements in Extensible Seats; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which like letters refer to like parts.

My invention relates to the construction of extensible seats for churches and halls, and will be understood from the following description.

In the drawings, Figure 1 represents a front view of my device, the dotted lines showing the extension when drawn out. Fig. 2 is an end view of the same. Fig. 3 is a rear view, the extension partly drawn out and the back broken away, showing the guides between which the slats move. Fig. 4 is an end view of the bracket and seat, the end piece being removed, showing the bracket-frame. Fig. 5 is a bottom view with the extension partly drawn out. Fig. 6 is a detail view of the upper portion of the metallic bracket. Fig. 7 is a front view of a modified form of my device. Fig. 8 is an end view on the line *xx*, Fig. 7, showing the extensible part of the seat and cushion in cross-section. Fig. 9 is an end view of the reversible part of the seat, showing how the spring is connected to the folding back. Fig. 10 is a bottom view of the reversible portion of the seat. Fig. 11 is an end view of the same, showing the seat thrown half-way over. Fig. 12 is a side view of the bracket-frame. Fig. 13 is an end view of the reversible seat and folding back, the latter half-way opened.

The form of the device shown in Figs. 1 to 6, inclusive, may be thus described in detail.

b is the back, which is made double, and within are guide-strips *g*, between which the slats *s'* of the extensible part slide.

The seat is marked *s*, and is supported at each end by the metallic bracket *br*, whose upright part has openings *o*, through which the slats *sl* pass, and its horizontal portion wider openings, through which the slats of the seat pass, as shown in Fig. 6. The feet of this bracket rest upon the floor, as shown in Fig. 4.

e is a wooden end piece, mounted on rollers

for convenience in drawing out, and on the inside of this is fixed a metallic bracket-frame, *bf*, which is provided with ears having screw-holes, as shown in Fig. 4, by means of which it is secured to the inside of the end piece, and the slats *sl* are fastened to and rest against the inside edge of this bracket-frame.

k is a key passing through the end piece, which may be turned by the handle outside, so as to lock the inner end over the cross-piece in the bracket *br*, holding the parts together when the seat is closed up. The bottom slats are connected to the bottom part of the bracket-frame *bf* and slide through the openings in the end of the bracket *br* underneath the bottom, as shown in Fig. 5, their inner ends resting upon lugs *l*, connected with the cross-piece beneath the bottom *b'*.

In Fig. 1 the seat is shown as extensible at each end, the dotted lines indicating the position of one end when drawn out, and in such case the cushion *c* is provided with the folding section *c'*, which is thrown over the seat part of the extension when drawn out, and when it is closed in it is folded over upon the main cushion, as shown at the right-hand end in Fig. 1. Where the seat is made extensible only at one end, the slats of the extension may be made long enough to reach the entire distance beneath the bottom. Where the seat is made extensible at both ends, of course the slats of each extension will only reach one half the distance beneath the bottom, so as to allow both ends to be shut up closely against the iron brackets that support the main seat.

The modified frame of my device shown in Figs. 7 to 13, inclusive, may be thus described:

The seat *s* rests at each end upon brackets *br*, constructed like the brackets shown in the other figures. The back *b*, however, may be made solid, and the cushion *c* is continuous without break. On the inside of the end piece, *e*, the bracket-frame *b'* is fastened by screws, and is provided near its upper end with iron pins *p'*, similar pins being formed on the inside of the bracket *br* opposite these pins, as shown in Fig. 7, these pins serving as stops or rests for the folding back *f*, the frame of which is pivoted at 1 on each side of the reversible bottom *r*, as shown in Figs. 9 and 13. This reversible bottom has plates *p* bolted on its

under side, which have short stub axles *a* journaled in the bracket-frame *b*² on one side and in the bracket *br* on the other, and upon the top of this reversible bottom is a cushion, *c*², of equal length, and a rubber band or spring, *sp*, connects the bottom with the folding back, as shown in Fig. 13.

l is a latch which slips over the seat-frame *f*' to lock it in position for use, and the ends of this frame *f*' enter sockets or openings *o*' in the bracket-frame *b*², as shown in Fig. 12, and in similar sockets or upon lugs formed on the opposite side of the bracket *br*.

Fig. 7 shows the end piece drawn out, the dotted lines in the back showing the position of the folding back when opened, and the other dotted lines show the position of the end piece and folding seat when closed up and the key locking the parts together. When the end piece is closed up against the frame *br*, the reversible seat *r* and foldable back pass through the opening in the bracket-frame and beneath the seat *s*, taking the position shown in the dotted lines in Fig. 7, and the pins *p*' on the sides enter corresponding openings in the opposite sides of the iron brackets, thus allowing the end piece, *e*, to be brought closely up against the bracket *br*. To extend the seat the key *k* is turned in the position shown in Fig. 7, unlocking it from the bracket. The end *e* is then drawn out, taking the position shown in the same figure. The reversible seat *r*, beneath which is the back folded up, as shown in Fig. 8, is rotated forward in the direction indicated by the arrow, (shown in the same figure,) and the latch is then thrown down, locking the seat in place. The folding back, which is under the cushion when not in use, as shown in Fig. 8, is brought to the upper side thereof by this movement, and is then opened out in the manner shown in Fig. 13. The pieces of the back, which are hinged together at *h*, rest against the pins *p*', as shown in Fig. 7, which afford support for the back, and the spring, being in the position shown in Fig. 13, will hold the back open, inasmuch as it has passed the point of its greatest tension.

What I claim as my invention, and desire to secure by Letters Patent, is the following :

1. A chair or hall seat having an extension connected with the end piece of the seat, capable of being drawn out in line with the seat itself, the back of the extension sliding into the back of the main seat, substantially as shown and described.

2. A seat having one or more extensible ends, such extension carrying a reversible seat journaled in bearings in a frame-work connected with the end piece of the seat, and adapted to slide under the main seat with such reversible seat, substantially as shown and described.

3. A seat having one or more extensible ends, such extensions carrying a reversible seat journaled in bearings in a frame connected with the end piece, a folding back-section connected therewith, and the whole adapted to slide beneath the main seat when the extension is closed up against the main seat-frame, substantially as shown and described.

4. A seat supported upon metal brackets at each end, such brackets being mortised to admit the boards forming the bottom and back of such seat, and a movable end piece with sectional seat attached, adapted to be drawn out to lengthen the main seat, substantially as shown and described.

5. A seat supported at each end upon metal brackets having openings to admit the boards forming the bottom and back of the seat, and one or more extensible end sections connected with a separate end piece, adapted to be drawn out to lengthen or pushed in to shorten the main seat-frame, with means, such as a knob, *k*, for locking the end piece to the adjacent bracket when the parts are pushed in, substantially as shown and described.

In witness whereof I have hereunto set my hand this 26th day of January, 1887.

ORA M. MILLER.

Witnesses:

C. P. JACOBS,
E. J. RALSTON.