

(No Model.)

2 Sheets—Sheet 1.

C. LOCKROW.

COMBINED FOLDING BED AND WARDROBE.

No. 370,879.

Patented Oct. 4, 1887.

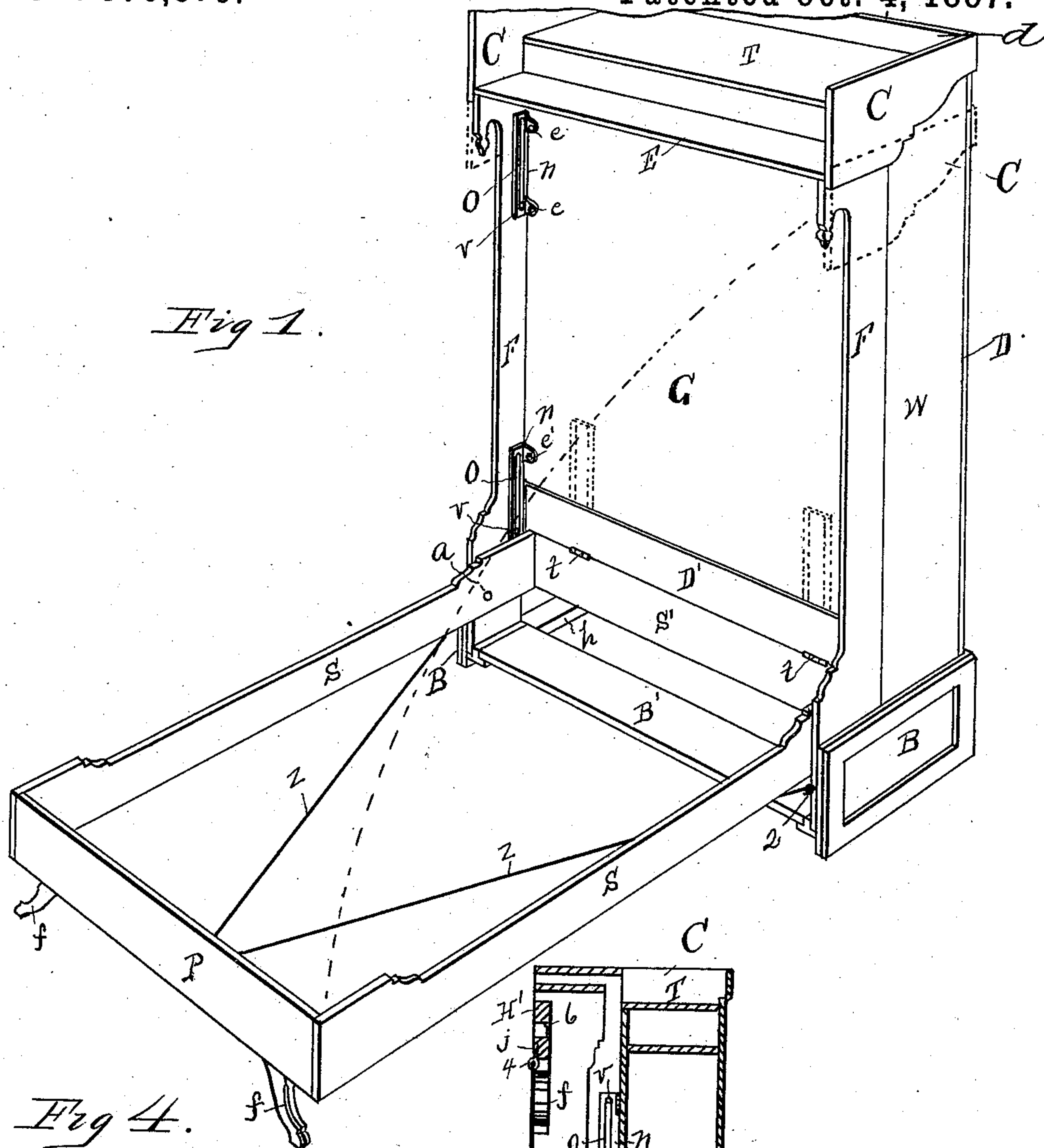
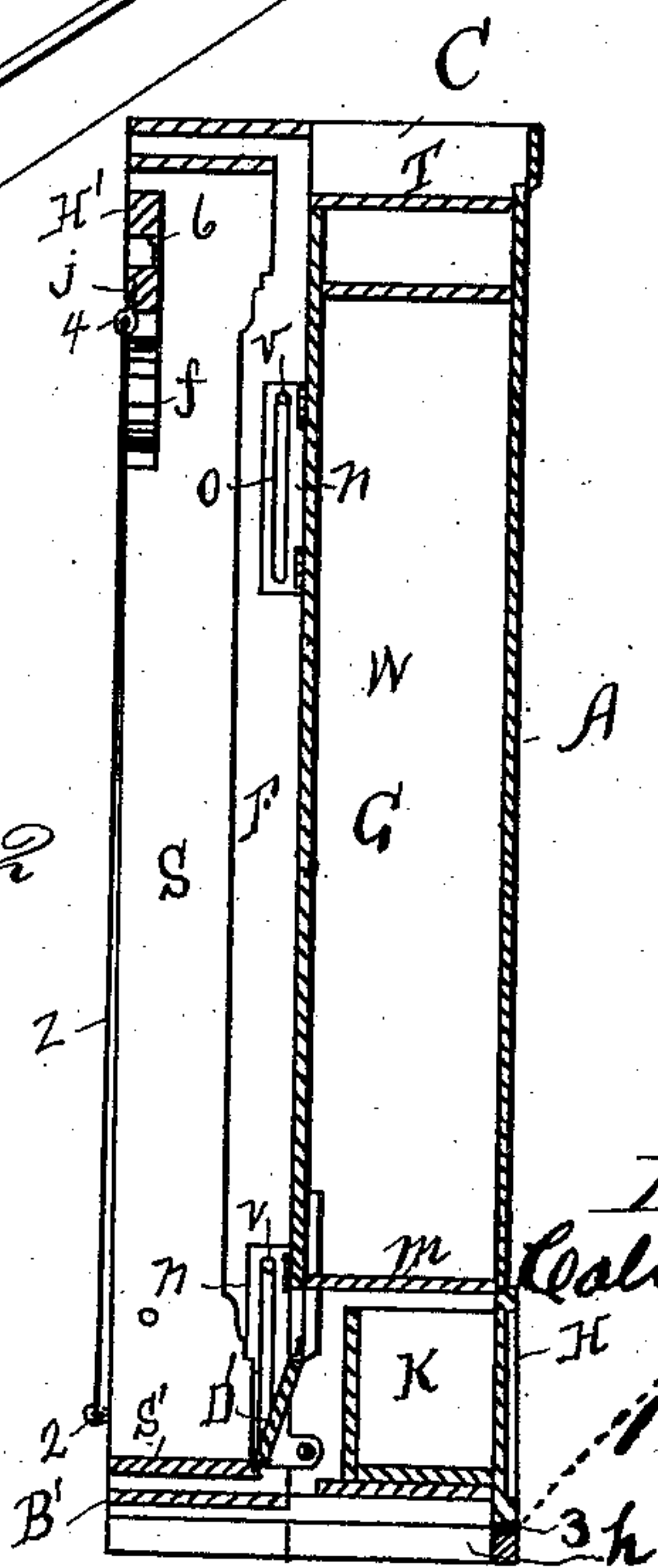


Fig 4.



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Fig 2



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Fig. 5.

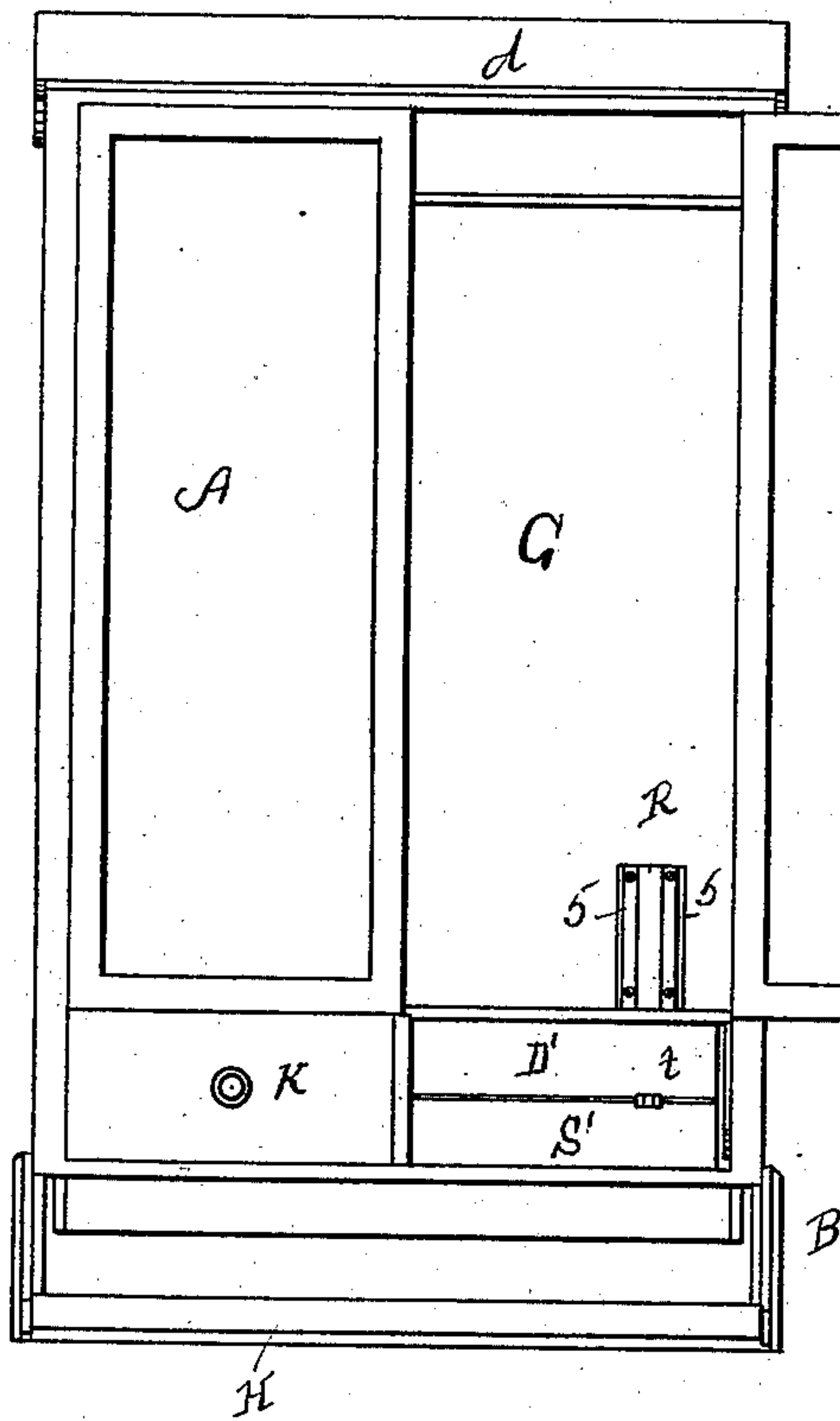


Fig. 6.

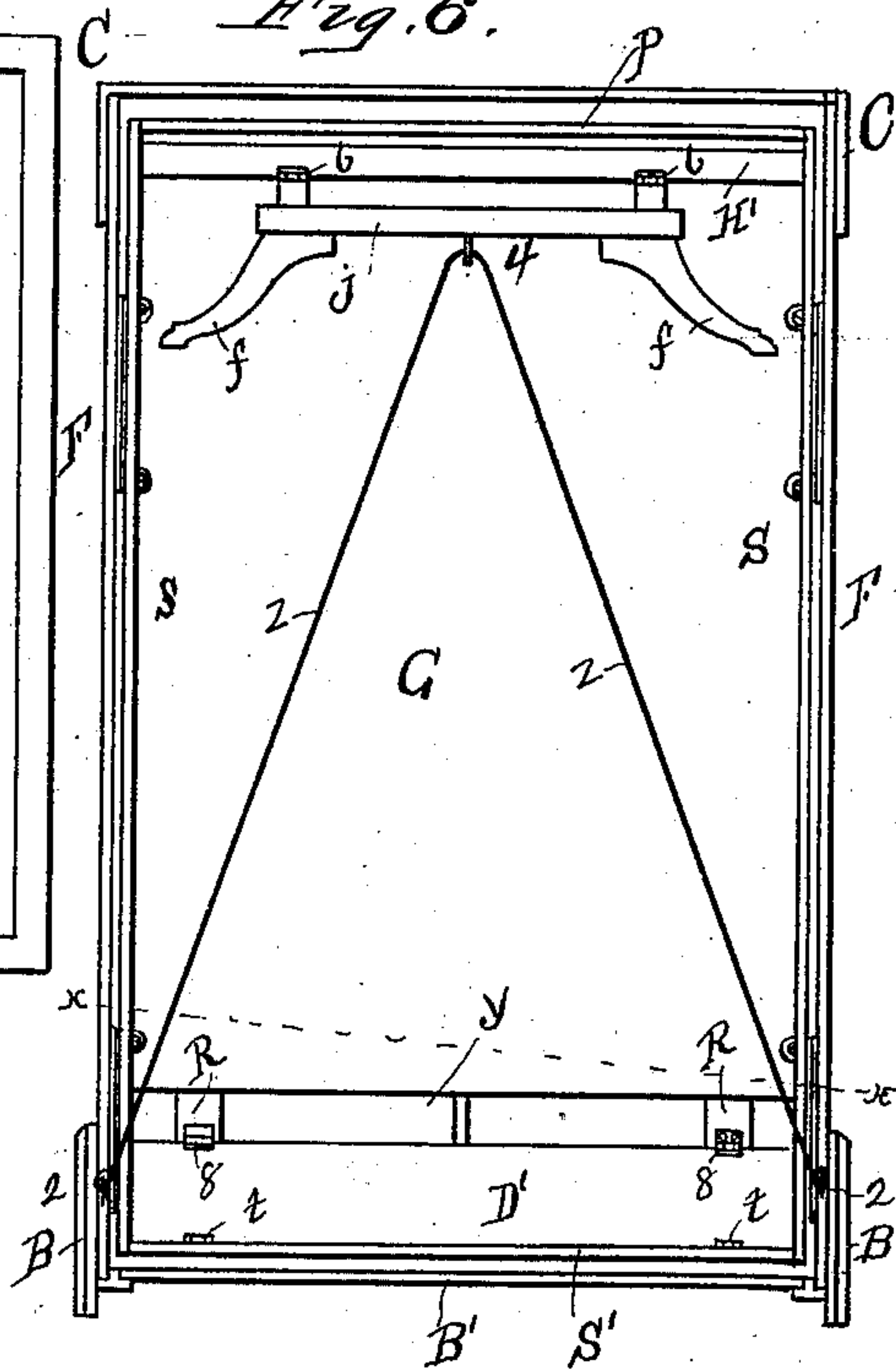
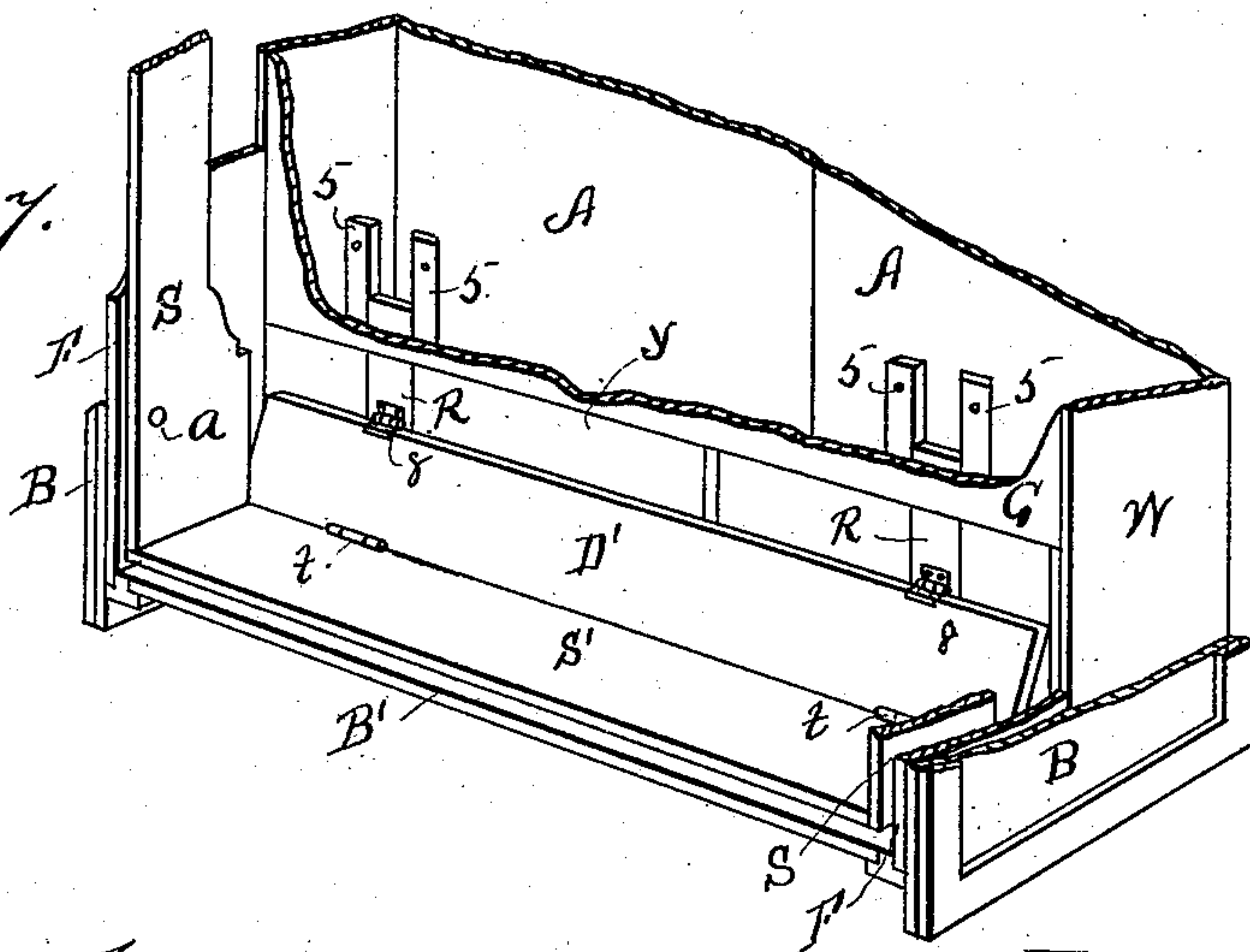


Fig. 7.



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UNITED STATES PATENT OFFICE.

CALVIN LOCKROW, OF DETROIT, MICHIGAN.

COMBINED FOLDING BED AND WARDROBE.

SPECIFICATION forming part of Letters Patent No. 370,879, dated October 4, 1887.

Application filed July 25, 1887. Serial No. 245,173. (No model.)

To all whom it may concern:

Be it known that I, CALVIN LOCKROW, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in a Combined Folding Bed and Wardrobe; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to that class of bedsteads known as "folding," in which weights and springs have been employed to raise the bed-frame and clothing.

I dispense with the springs and weights by coupling to the bed-frame a wardrobe which acts as a balance in operating the parts and makes a convenient attachment for storing extra bedding and garments, as well as giving to the bedstead, when folded, the appearance of a wardrobe.

The essential features of my invention will be particularly pointed out in the claims.

In the accompanying drawings, forming a part of the specification, Figure 1 is a perspective showing the bed-frame in a horizontal position and the wardrobe as elevated. Fig. 2 is a central vertical section of Fig. 1, the parts being folded up. Figs. 3 and 4 are enlarged details in perspective. Fig. 5 is a front view of Fig. 1, showing one of the wardrobe doors opened and a slipper-drawer removed, which will be hereinafter fully explained. Fig. 6 is a rear view of Fig. 1, showing the parts folded, as shown in Fig. 2. Fig. 7 is an enlarged perspective of the operating parts, taken below the dotted horizontal line *xx* of Fig. 6.

As shown in the drawings, the upright frame consists of the side risers, *F F*, and horizontal cross bars or supports *E B'*.

D represents the wardrobe, which is attached to the front of the supporting-frame.

B B represents the side base supports, which are made fast to the risers *F* and overlap the sides *W* of the wardrobe, but are not attached to said wardrobe.

H is a door secured by spring-hinges 3 to the stationary frame or base supports *B*. The spring-hinges cause the door *H* to close or remain in a vertical position, as shown in Fig. 2, but allow the door to be turned down to a horizontal position, as shown by dotted lines in Fig. 2. (See also Fig. 5.) The front of the wardrobe has two doors, *A A*, below which is located two drawers, *K K*. One of said drawers is removed in Fig. 5.

Attached to the front of the wardrobe at the top is a crown-board, *d*, and *C C* are end brackets made fast to the top of the wardrobe, and overlap the side supports, *F*, and slide up and down over said supports as the wardrobe rises and falls.

The bed-frame consists of the side rails, *S*, head rail, *S'*, and foot rail, *P*. The side rails are pivoted at *a* to the uprights *F* of the stationary frame.

H' is a supporting-bar made fast to the side rails, *S*, at the foot end of the bed-frame.

J is a swinging bar, hinged at 6 6 to the supporting-bar, (see Fig. 6,) and *f f* are legs made fast to the bar *J*.

Z is a metal rod or yoke, which is pivoted at 4 to the swinging bar. The ends of said yoke are pivoted or hinged at 2 2 to the uprights *F*. The object of the yoke *Z* is to cause the head *J* to swing on the hinges 6 6 as the bed-frame is raised to the position of Fig. 6 or lowered to the position of Fig. 1, whereby the legs *f f* are caused to maintain a perpendicular position, as shown in said views.

D' is an operating-board, the lower edge of which is hinged at *t t* to the upper edge of the cross-rail *S'* of the bed-frame. Said board *D'* is located under the back *G* of the wardrobe, and is connected therewith by means of the vertically-sliding arms *R R*. Said arms at their lower ends are hinged at 8 to the operating-board, and pass through the elevated bottom board, *m*, of the wardrobe. Said arms are secured to the back *G* of the wardrobe by means of the cleats or guides 5 5, which allow the arms *R R* to slide freely between them, as will be hereinafter set forth.

n n are metal plates having longitudinal openings *O* and lugs or ears *e e*. The ears of said plates are made fast to the wardrobe-back

G, and travel up and down as the wardrobe rises and falls.

V V are pins or lugs anchored in the uprights F, and project through the slots O of the metal plates, whereby the wardrobe is movably attached to the supporting-frame.

The operations are as follows: The parts being in the position of Fig. 1, to fold up the bed the operator raises slightly on the bed-frame, causing the foot or free end to swing upward and into the stationary frame. As the bed-frame rises, the wardrobe drops as shown by dotted lines of Fig. 1. (See also the position of parts in Figs 2 and 6.) Just prior to the bed-frame's entering the stationary frame the side's uprights W of the wardrobe strike the base-rails h of the stationary frame, arresting the fall of the wardrobe. The bed-frame at this point being well elevated, it is easily swung into the stationary frame, as shown in Figs. 2, 6, and 7. As the bed-frame enters or assumes its upright position, the swinging down of the head-board S' causes the hinged operating-board D' to draw down from the wardrobe, forming the space Y. As the board D' drops, the arms R R slide between the guides or cleats 5 5, as clearly shown in Fig. 7. To swing the bed-frame from the vertical position of Figs. 2 and 6 to the horizontal position shown in Fig. 1, the operator forces the upper free end of the bed-frame out of the stationary frame. The bed-frame moves freely and easily until the hinged board D' rises against the wardrobe, when the weight of the wardrobe, added thereto, counterbalances the falling frame. The wardrobe rises slightly as the bed-frame assumes its horizontal position.

It will be observed from the foregoing that as the wardrobe is raised the slipper-drawers will be elevated above the door H at the base of the wardrobe, when said drawers may be readily removed; and that when the wardrobe is down, as shown in Figs. 2, 6, and 7, the slipper-drawers will be located behind the door H, and to give access to said drawers the door H is to be swung downward from the top, as shown by dotted lines of Fig. 2, when said drawers may be drawn forward.

The supporting-frame is to be provided with casters to enable turning the device about. The wardrobe represents the front proper.

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

1. In combination with the upright frame, the bed-frame having one end pivoted thereto, the hinged bar and foot-supports attached to the free end of said bed-frame, the wardrobe movably attached to the upright frame and having engagement with the bed-frame, forming a counter-balance therefor, as and for the purposes specified.

2. In combination with the upright frame having the base-supports B, the bed-frame pivoted at a to the upright frame, the wardrobe having doors A, A, and H, and drawers K in the front thereof, the plates n, securing movably the wardrobe to the upright frame, and the mechanism coupling the wardrobe to the bed-frame, as and for the purposes specified.

3. In combination with the upright frame, the swinging bed-frame pivoted at one end thereto, the hinged bar carrying the foot-supports attached to the free end of said bed-frame, the rod Z, coupled to the hinged bar and to the upright frame, the wardrobe, the metal plates n and pins V, coupling said wardrobe to the upright frame, and the mechanism coupling the wardrobe to the swinging bed-frame, as and for the purposes specified.

4. In combination with the upright frame, the swinging bed-frame pivoted at a thereto, the wardrobe attached to the upright frame, so as to have a vertical reciprocating motion, the swinging board D', hinged to the cross-rail S' of the bed-frame, and the arms R, hinged to said board, said arms being movably coupled to the wardrobe, substantially as and for the purposes specified.

In testimony whereof I affix my signature in presence of two witnesses.

CALVIN LOCKROW.

Witnesses:

R. B. WHEELER,
B. F. WHEELER.