

(No Model.)

2 Sheets—Sheet 1.

A. SCHROCK.

SOFA BED.

No. 332,010.

Patented Dec. 8, 1885.

Fig. 1.

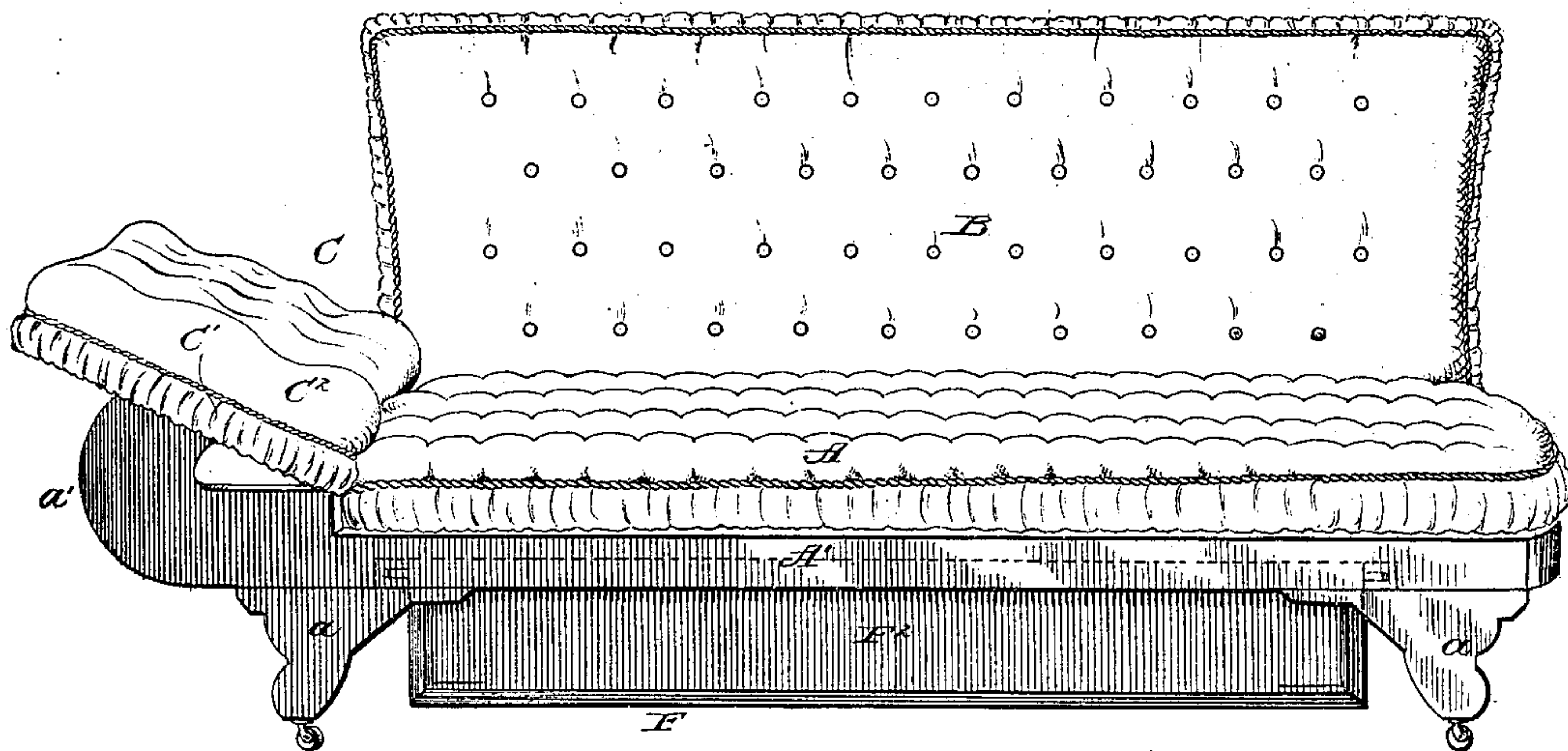
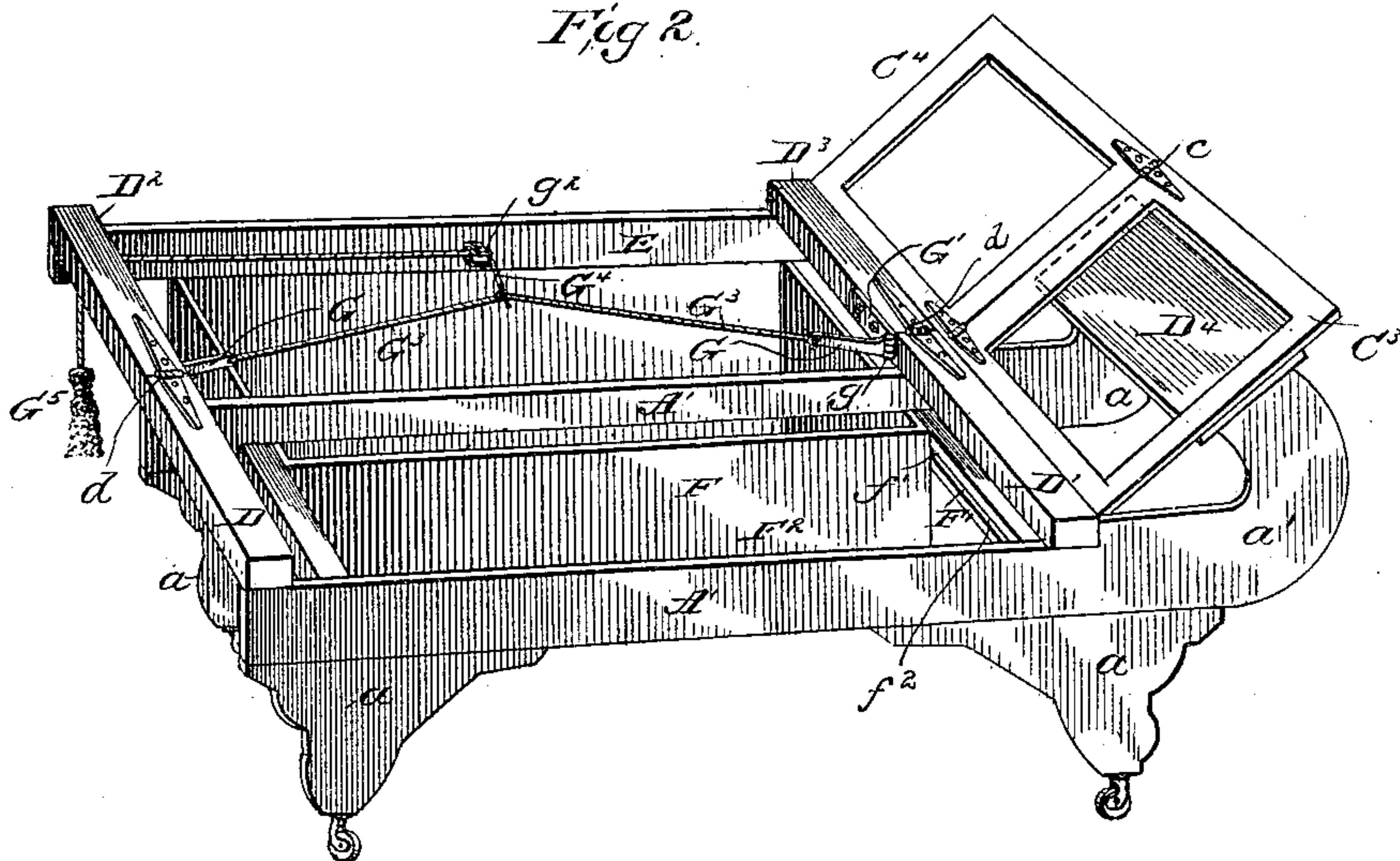


Fig. 2.



Witnesses.

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Attorney

(No Model.)

2 Sheets—Sheet 2.

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Fig. 3.

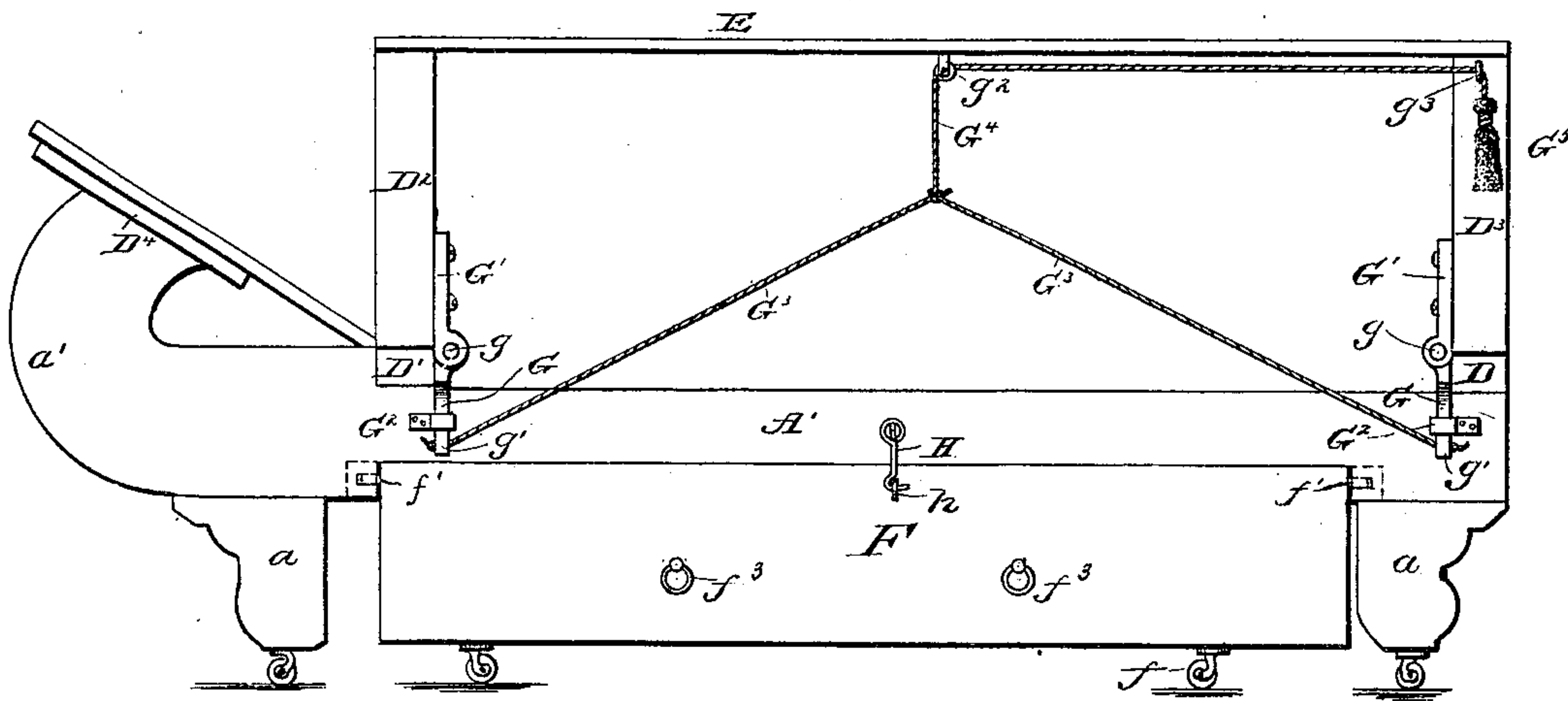


Fig 4.

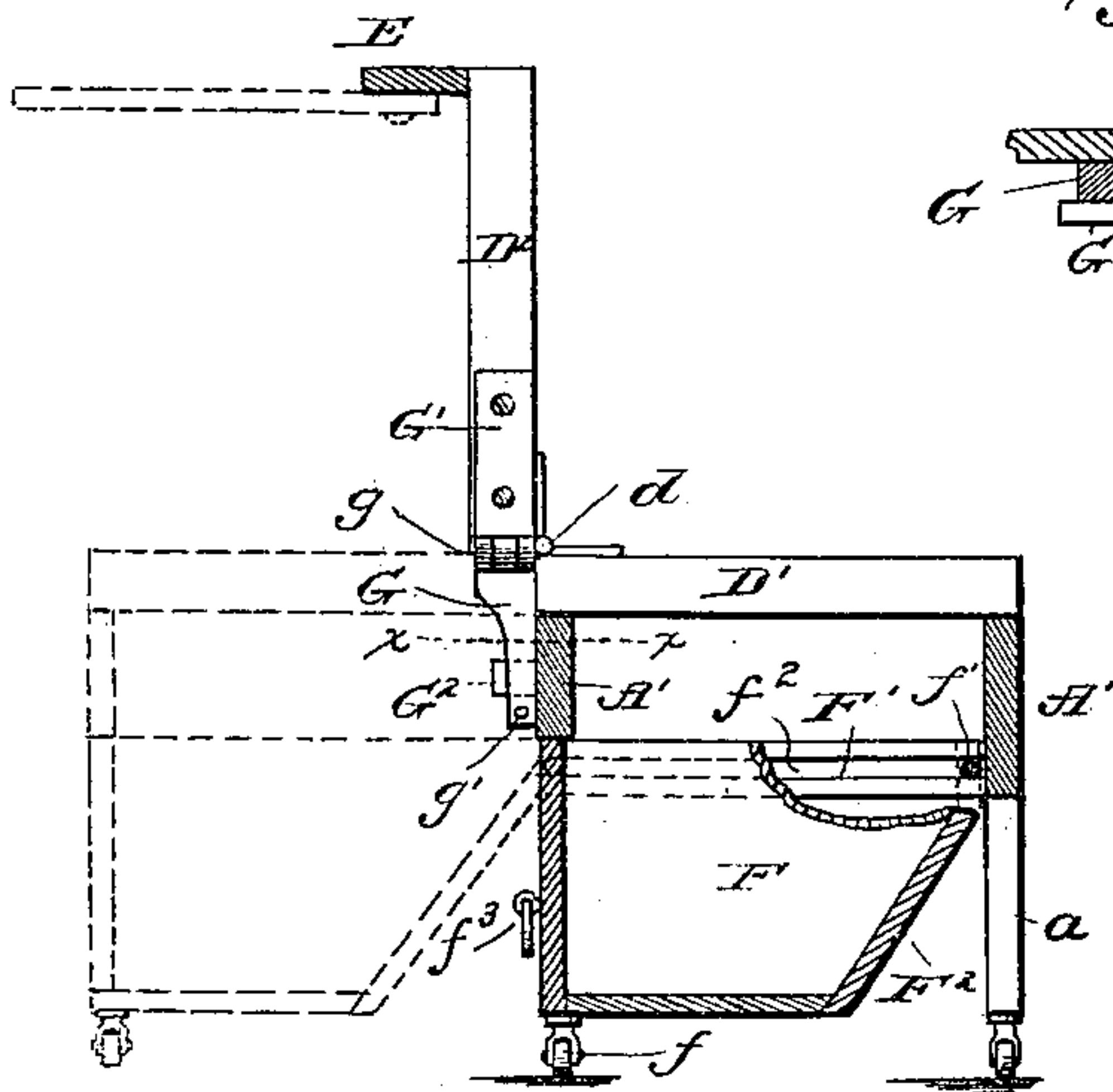
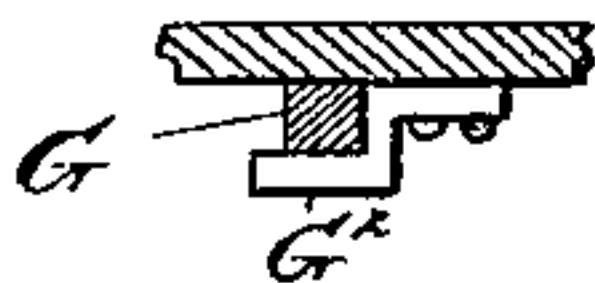


Fig. 5.



Witnesses.

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UNITED STATES PATENT OFFICE.

AMOS SCHROCK, OF CHICAGO, ILLINOIS.

SOFA-BED.

SPECIFICATION forming part of Letters Patent No. 332,010, dated December 8, 1895.

Application filed August 10, 1883. Renewed July 27, 1885. Serial No. 172,845. (No model.)

To all whom it may concern:

Be it known that I, AMOS SCHROCK, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Sofa-Beds; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to that class of sofa-beds having a horizontal surface or seat and a hinged back constructed to fold down in a horizontal position when the article is in bed form and to stand vertically when the article is in use as a sofa.

The object of the invention is to provide an improved construction in the devices for supporting the hinged back in the class of sofa-beds above mentioned; and it consists in the matters hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of the article in the form of a sofa. Fig. 2 is a perspective view of the sofa-frame with the upholstering removed and when in bed form. Fig. 3 is a rear view of the sofa-frame with the folding back in a vertical position. Fig. 4 is a vertical transverse section of the same taken upon line *xx* of Fig. 3. Fig. 5 is a detail section taken upon line *xx* of Fig. 4.

The sofa-bed shown in the accompanying drawings as embodying my invention consists in its general features of a main horizontal portion or seat, A, having an upholstered surface similar to the seat of an ordinary sofa, a hinged portion or back, B, secured at its lower edge to the rear edge of the seat A, and an inclined head-rest, C. The latter, as shown in the drawings, consists of parts C' and C², the lower part, C', being stationary and secured to the sofa-frame, and the upper portion, C², being attached at its rear edge to the rear edge of the part C', and constructed to form, when folded forward upon the part C', an inclined head-rest, as shown in Fig. 1, and when folded backwardly to form, with the part C', an inclined upper portion, extending the entire width of the parts A and B, as shown in Fig. 2, in which the frames C³ and C⁴ of said parts C' and C² only are shown.

The part A of the sofa is preferably formed by means of two longitudinal side pieces or rails, A', supported upon suitable legs, *a*, and two cross-pieces, D and D', connecting the said rails at the foot and head of the sofa, respectively. The ends *a'* of the side rails, A, at the head of the sofa are extended upwardly, preferably in a curved form, as shown, and connected by a cross-piece, D⁴, which supports the inclined head-rest C, before mentioned.

The frame of the folding back portion, B, of the sofa consists of a longitudinal rail, E, and two end pieces, D² D³, rigidly secured to said rail at their upper or outer ends, and connected at their inner ends with the cross-pieces D and D', respectively, by means of hinges *d*. The end pieces, D² and D³, are arranged end to end with the cross-pieces D and D', and when folded down into a horizontal position, as shown in Fig. 2, form with such cross-pieces the upper and lower rails of the bed.

As an improved construction in the devices for supporting the sofa-back in its vertical position, the frame of said back is provided at its edge, adjacent to the sofa-frame, with one or more latches or hinged dogs, G, the pivotal axes of which are located transversely to the longitudinal rails of the sofa-frame, so that when the sofa-back is in a vertical position the said dogs may be swung downwardly in a plane parallel with the rear vertical faces of the rear rail A' of the same frame. The dogs G are so located that when their free ends are swung downwardly they will come into position against the rear face of the rail A', and thereby act as stops to prevent the sofa-back from rotating backwardly upon its hinges, and when folded upwardly are out of the way, so that the said back may be folded down, as clearly shown in the drawings, Figs. 3 and 4. As preferably constructed, said dogs G are pivoted, by means of pins *g*, to plates G', attached to the inner faces of the bars D² and D³, and are so arranged that their free ends, when lifted for the purpose of disengaging them from the sofa-frame, move inwardly toward the center of the said frame.

The sofa-back may be held from forward movement, when in a vertical position, by the form or comparative rigidity of the upholstering at the junction of the seat and back, or by a stationary stop upon the sofa-frame.

As a preferred means of preventing such forward movement, however, a keeper, G^2 , is secured to the rear rail A' in position to engage the lower end of the dog G when the latter hangs vertically, and which is constructed to hold the lower end of the said dog from movement in any direction except inwardly, or in the direction in which it folds.

For the purpose of disengaging the lower ends of the dogs G from the rail A' and the keeper G^2 when it is desired to fold the sofa-back downwardly, I preferably employ cords extending from said dogs over suitable pulleys to a point at one end of the sofa-back, so that both dogs may be operated at once from one end of the sofa. In the device shown two cords, G^3 , are connected to the lower or free ends of said dogs by being secured in eyes g' therein, said cords being joined in a single cord, G^4 , which passes over a pulley, g^2 , near the center of the sofa-back, and is led through a ring, g^3 , near one end thereof, and terminates in a ring or tassel, G^5 , by which it may be grasped and the dogs operated.

For the purpose of supporting the back B when in its horizontal position, a sliding drawer or box, F , adapted to serve as a receptacle for bed-clothing and pillows, is preferably located beneath the sofa and adapted to be drawn out in position to properly sustain the sofa-back. As herein shown, the drawer F is supported from the floor at its edge, which is at the rear of the sofa-seat, by casters f , and is connected with and supported from the sofa-frame at its edge, which is toward the front of the sofa, by pins f' , adapted to engage grooves f^2 in cross-bars F' , secured to the front and rear rails, A' , near each end of the sofa.

In order to render the drawer less conspicuous from the front of the sofa than would otherwise be the case, the front wall, F^2 , thereof is outwardly and downwardly inclined, as shown clearly in Fig. 4.

For the purpose of supporting the outer or front portion of the drawer upon the sofa-frame when the sofa is lifted, a hook, H ,

(shown in Fig. 3,) may be pivoted to the rear rail A' of the sofa-frame, and constructed to engage an eye, h , upon the drawer when the latter is in its closed position.

Instead of supporting the sofa-back when in a horizontal position by means of the drawer F , the said back may be upheld by means of folding legs pivoted to the rail E , as indicated in dotted lines in Fig. 4, and the said drawer in such case may be retained and used solely as a receptacle for the bed-clothing, or it may be dispensed with entirely.

I claim as my invention—

1. The combination, with the sofa-frame A and back B , hinged to said frame, of dogs G , loosely pivoted to the lower edge of the back upon pivots at right angles to the plane of the back, and cords connected with the free ends of said dogs and extended to a single point upon the said back, substantially as and for the purposes set forth.

2. The combination, with the sofa-frame A and back B , hinged to said frame, of dogs G , loosely pivoted to the lower edge of the back upon pivots at right angles to the plane of the back, catches G^2 on the frame, and cords connected with the free ends of said dogs and extended to a single point upon the said back, substantially as and for the purposes set forth.

3. The combination, with a sofa-frame, A , and hinged skeleton back B , comprising the longitudinal top and marginal rail, E , and end rails, D^2 D^3 , of dogs G , loosely pivoted to the inner faces of the lower ends of the said end rails upon pivots at right angles with the plane of the back, and lifting-cords connected with said dogs and extending to a common point upon the back, substantially as described, and for the purposes set forth.

In testimony that I claim the foregoing as my invention I affix my signature in presence of two witnesses.

AMOS SCHROCK.

Witnesses:

JESSE COX, Jr.,
CYRUS KEHR.