

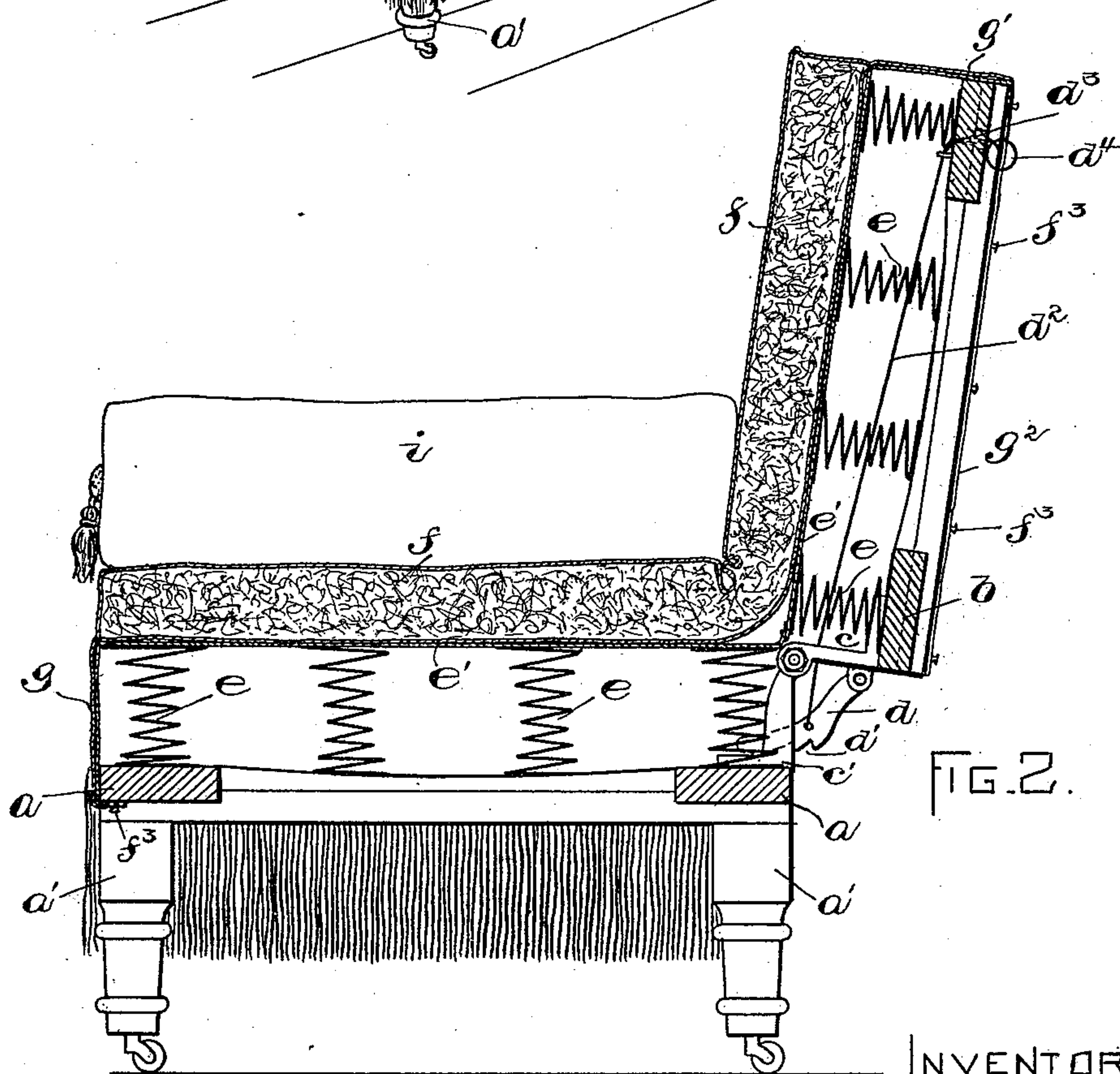
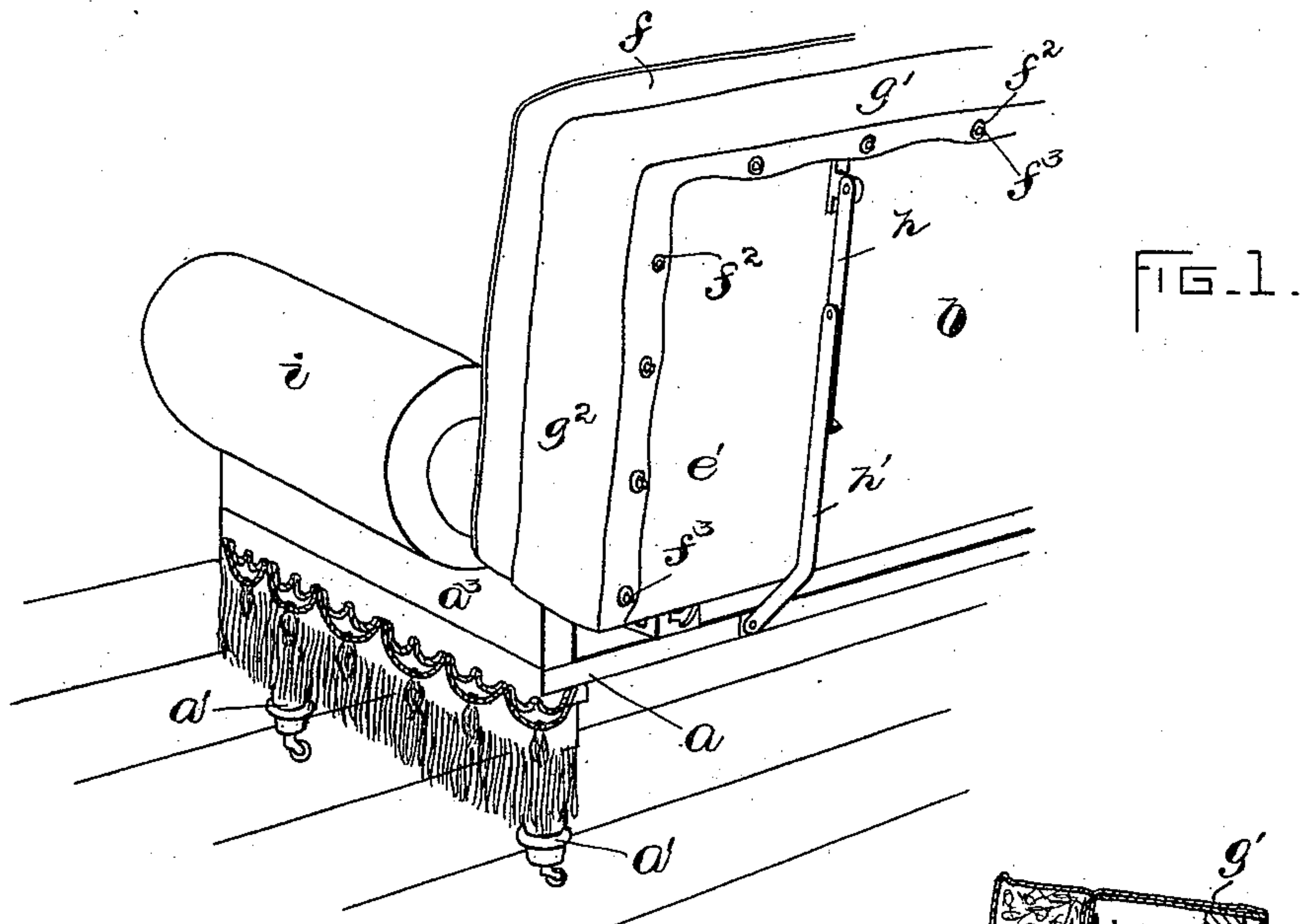
(No Model.)

2 Sheets—Sheet 1.

J. BOYD.  
SOFA BED.

No. 539,607.

Patented May 21, 1895.



WITNESSES:

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P. Davis

INVENTOR

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(No Model.)

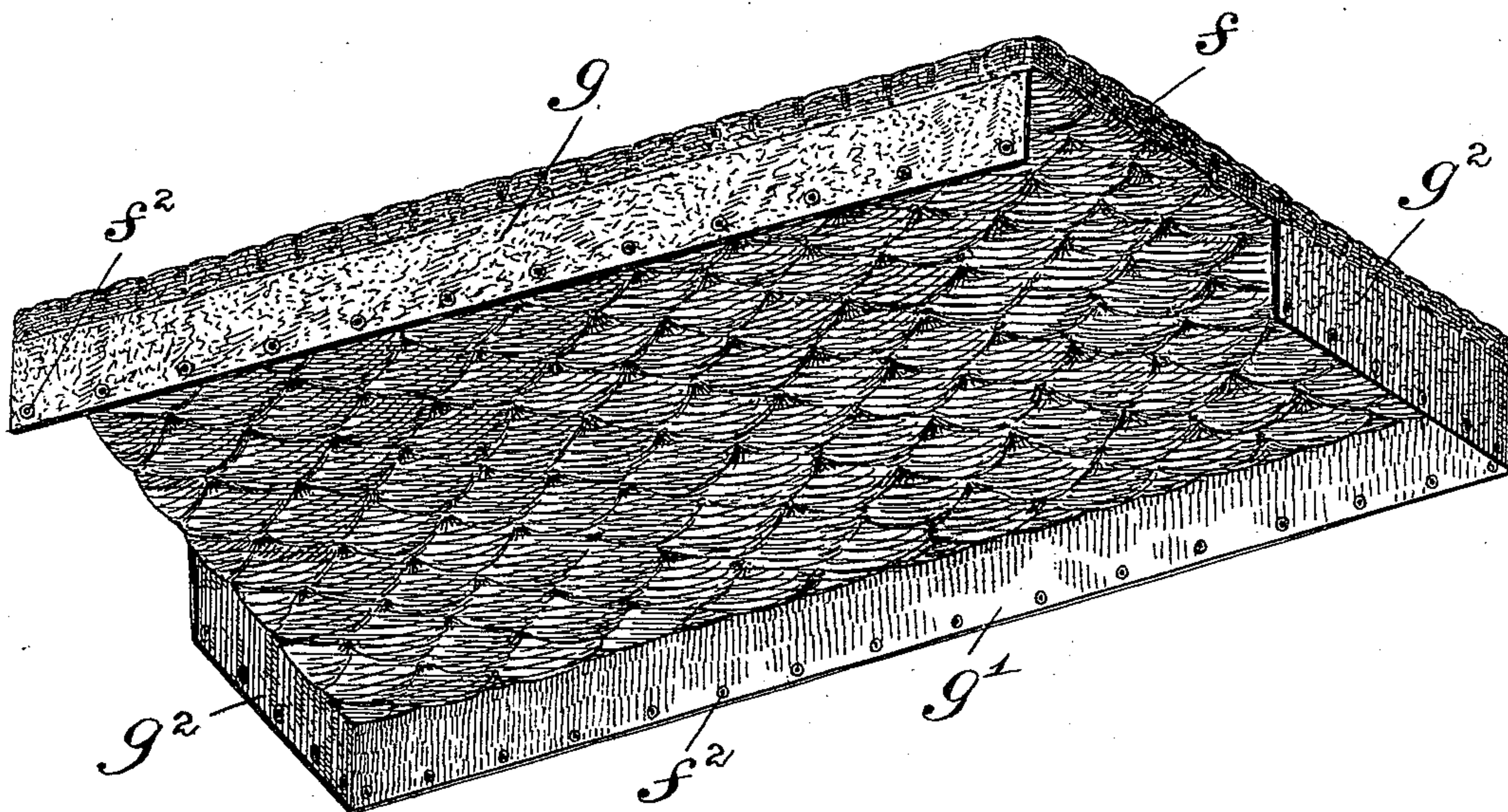
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FIG. 3



Witnesses  
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# UNITED STATES PATENT OFFICE.

JOHN BOYD, OF BOSTON, MASSACHUSETTS.

## SOFA-BED.

SPECIFICATION forming part of Letters Patent No. 539,607, dated May 21, 1895.

Application filed October 12, 1894. Serial No. 525,660. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN BOYD, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Sofa-Beds, of which the following is a specification.

This invention relates to that class of furniture known as sofa beds, which are convertible at will from sofas into beds and vice versa.

One object of the present invention is to economize in the matter of upholstery by the use of a reversible mattress having one side finished in more elegant material than the other so that when the article is adjusted as a sofa the finer side of the mattress will be exposed, and when adjusted as a bed this finer side is protected by reversal of the mattress and that side of the latter is uppermost which is best suited for bed-use. While accomplishing this object a neat appearance of the article is maintained, and convenience of manipulation provided for.

To this end, the invention consists in the novel construction of parts recited in the appended claim.

The accompanying drawings, which form part of this specification, illustrate an embodiment of the invention.

Figure 1 shows a rear perspective view of a portion of a sofa-bed constructed in accordance with the invention, as it appears when adjusted as a sofa. Fig. 2 shows a cross-section of the same. Fig. 3 shows a perspective view of the mattress.

The frame of the device is in two sections, *a* and *b*, the former mounted on legs, *a'*, and the latter hinged to the back-edge of the section, *a*, and adapted either to stand nearly upright as shown in Figs. 1 and 2, or to extend horizontally in the plane of the section, *a*. The two sections are connected by hinges, each composed of two members, *c*, and, *c'*, of angular form with the pintle passed through the extremities of the outstanding arms. A ratchet prop, *d*, is hinged to the member, *c*, and the member, *c'*, is suitably formed for the engagement of the ratchet-teeth *d'*, so that by this means the back-section, *b*, may be sustained in an upright position. A cord, *d<sup>2</sup>*, attached to the said prop, is carried up through the back-section, *a*, and out through a hole, *d<sup>3</sup>*, in the same and is provided with a ring,

*d<sup>4</sup>*, by which to manipulate it for the purpose of disengaging the ratchet-prop from the hinge-member, *c'*.

A cushion is mounted on the frame of the device and is made in sections to correspond therewith. This cushion comprises spiral springs, *e*, and coverings, *e'*, extending over the springs and attached to the frame. A mattress, *f*, covers the cushion and this mattress is reversible, one side of it being finished for the sofa and the other for the bed. A skirt is attached to the edges of the mattress and when the device is adjusted as a sofa, this skirt is stretched across the cushion and forms an edge piece covering the same. The skirt is carried under the sectional frame and is equipped with eyes, *f<sup>2</sup>*, which take over studs, *f<sup>3</sup>*, projecting in rows from the under side of the frame. This arrangement provides both for neatness in appearance and convenience of manipulation, for the studs are virtually concealed from view and yet are easy of access when the mattress-skirts are to be connected with or disconnected from them. The ends of the frame section, *a*, are closed by boards, *a<sup>3</sup>*, which are suitably finished and to which trimmings are applied as shown.

The skirt hereinbefore mentioned comprises a flap, *g*, for the front of the sofa-seat, and flaps, *g'* and *g<sup>2</sup>*, for the top and ends of the sofa-back. This arrangement of flaps gives the device a finished appearance as a sofa so that there is no suggestion of its capability of conversion into a bed.

The flaps will be of the material of the sofa-side of the mattress and by having them not only stretched across the spring-cushion but also carried over onto the back of the frame, all suggestion of the device being anything but a sofa is avoided. The particular arrangement of the flaps has been adopted with this object in view, for it will be seen that by carrying the skirt over three sides of the back-section of the mattress, the ends as well as the top of the frame, *b*, are covered, and the continuity of the skirt between the top and ends gives a finished appearance. The flaps, *g<sup>2</sup>*, it will be noticed terminate so as not to interfere in any way with the movement of the hinged section of the frame.

When the device is adjusted as a bed the section, *b*, is supported by folding legs, *h*, held



out by braces, *h'*. (Only one set of these appliances is shown but it will be understood that there is another set at the other end.)

5 The arm-rests, *i*, of the sofa will be made detachable. This being a common expedient no special illustration is given.

What I claim as my invention is as follows:

10 A sofa-bed comprising in its construction a foundation frame composed of two sections hinged together one mounted on legs and constituting the seat-portion of the sofa-frame and having a row of studs projecting from its under side along the front, and the other  
15 frame-section movable on the hinge from a horizontal to a substantially vertical position and having rows of studs projecting from its rear side along the top and ends; and a reversible mattress designed to cover both sections  
20 of the frame and having a flap or skirt attached to its front edge and arranged to

stretch across the front of the seat-section of the frame and over the edge of the same onto its under side said skirt having eyes to engage the studs on said section, the mattress also having a flap or skirt extending along its back- 25 edge and partially along its sides or ends and arranged to stretch across the top and ends of the hinged section of the frame and over the edges thereof onto the rear side and having eyes to engage the studs on this hinged 30 frame-section.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 6th day of October, A. D. 1894.

JOHN BOYD.

Witnesses:

C. F. BROWN,  
F. P. DAVIS.