

(No Model.)

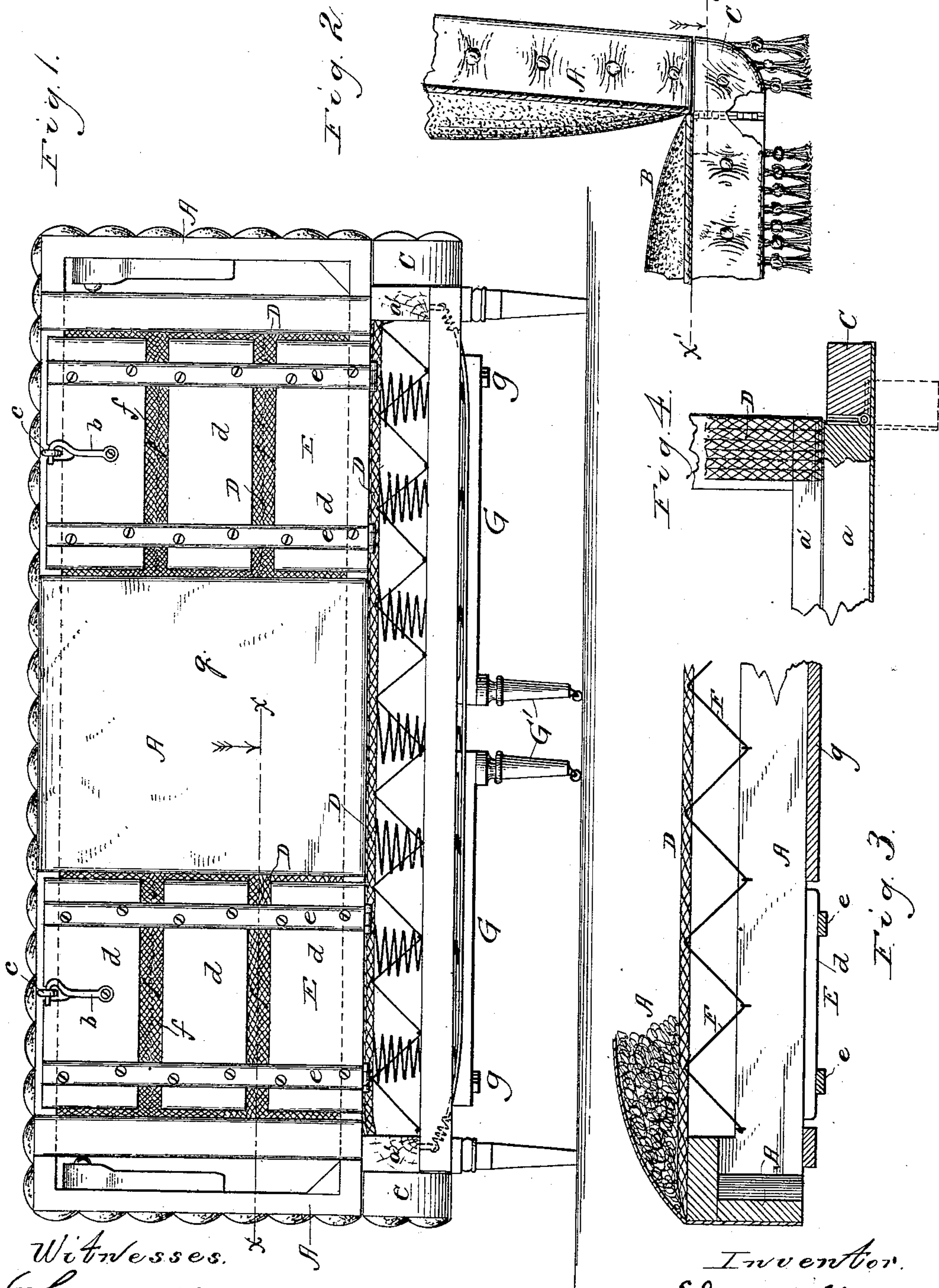
2 Sheets—Sheet 1.

E. YEOMAN.

SOFA BED.

No. 373,509.

Patented Nov. 22, 1887.



Witnesses.
Henry H. H. H.
O. H. H.

Inventor.
Edward Yeoman
per. F. F. Warner
his Attorney.

(No Model.)

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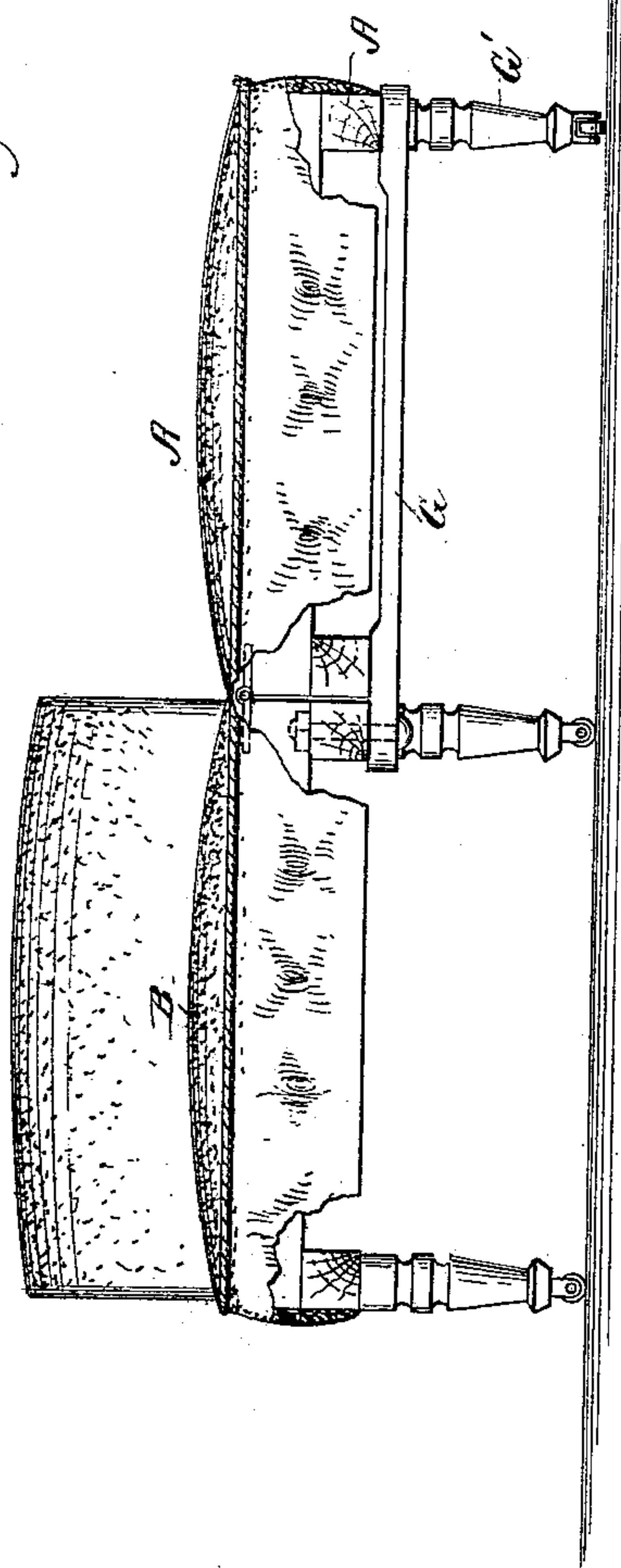
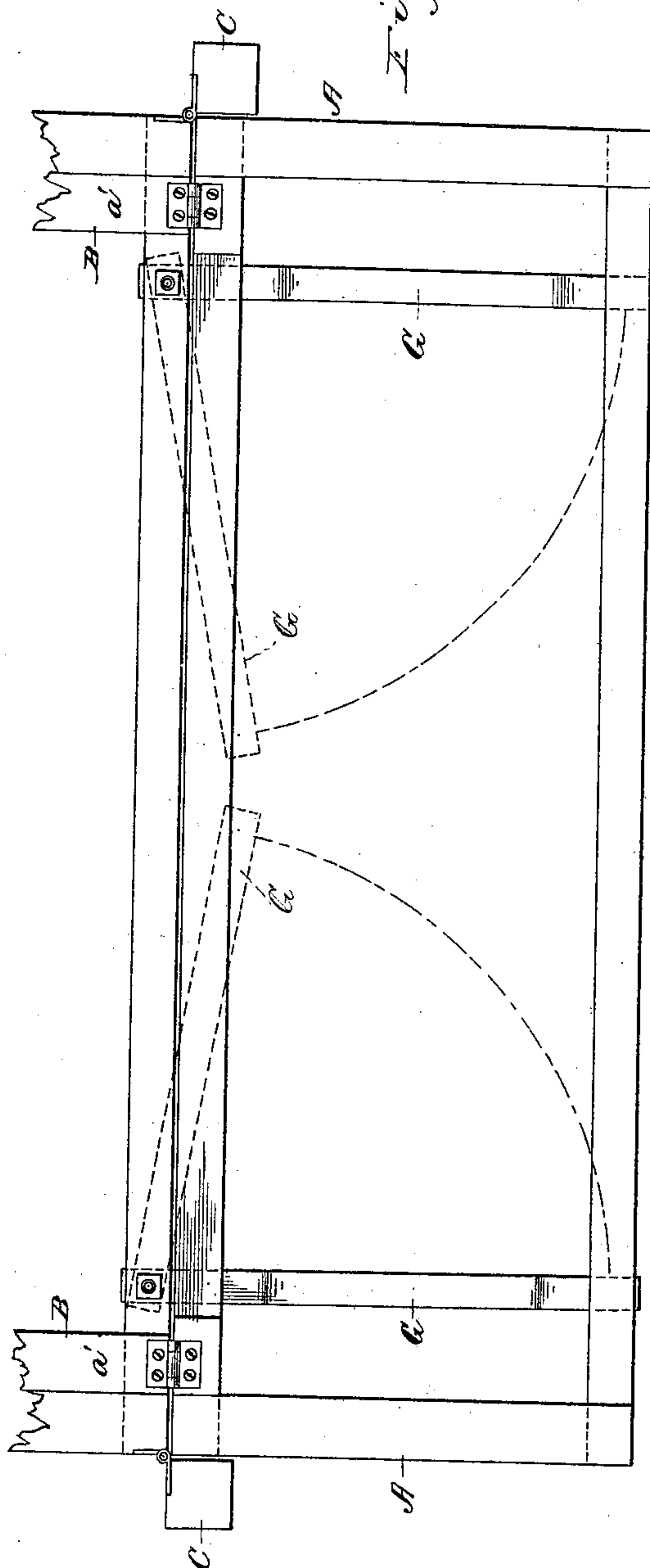


Fig. 6.



Witnesses,

Henry Francis
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UNITED STATES PATENT OFFICE.

EDWARD YEOMAN, OF CHICAGO, ILLINOIS.

SOFA-BED.

SPECIFICATION forming part of Letters Patent No. 373,509, dated November 22, 1887.

Application filed April 2, 1886. Serial No. 197,526. (No model.)

To all whom it may concern:

Be it known that I, EDWARD YEOMAN, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Sofa-Beds, of which the following, in connection with the accompanying drawings, is a specification.

My invention relates to that class of sofas having folding backs and adapted to be arranged for use as beds. A sofa-bed of this class is shown and described in Letters Patent of the United States of America No. 324,205, dated August 11, 1885, and granted to me for the improvements therein set forth. A particular description of such a sofa-bed is not, therefore, necessary.

My invention consists in the combination of elements hereinafter more particularly described and claimed.

In the drawings, Figure 1 is a back view of a sofa-bed embodying my improvements. Fig. 2 is a detail, the same representing one corner of the sofa, or that part near which the back and seat are in conjunction with each other. Fig. 3 is a section in the plane of the line $x x$ of Fig. 1, viewed in the direction indicated by the arrow there shown. Fig. 4 is a section in the plane of the line $x' x'$ of Fig. 2, viewed in the direction indicated by the arrow there shown. Fig. 5 is an end view of the lower end of foot of the unfolded sofa-bed when arranged for use as a bed, certain portions being represented as broken away; and Fig. 6 is a top or plan view of a portion of the frame of the sofa and the folding legs or supports for supporting the unfolded or lowered back of the sofa.

Like letters of reference indicate like parts. A represents the sofa-back, and B is the sofa-seat.

$a a'$ are bars or rails forming a portion of the seat-frame, the same being in the ends of the seat-frame. The back A is hinged to the seat-frame, so that the lower inner edge of the back and the upper rear edge of the seat are in conjunction with each other. This manner of hinging the parts together ordinarily leaves no other support underneath the lower edge of the back.

C C are blocks hinged to the end rails of the

seat-frame—for example, to the bars or rails $a a'$. The blocks C C are so hinged to the seat-frame that they will project out underneath the lower edge of the sofa-back, as indicated, for example, in Fig. 2. It will be perceived that the blocks C C, when thus standing out underneath the sofa-back, will aid materially in supporting it in its vertical position, or while it is in position to serve as the back of a sofa. In order to allow the back to be arranged horizontally, it is only necessary to turn the blocks C C outward, or into the position represented by the dotted or broken lines shown in Fig. 4. When the said blocks are in that position, they are in no way a hindrance to the arranging of the back in a horizontal position, or in the position which it occupies when used as a bed. These blocks I cover or upholster in a manner corresponding to the covering upon the other parts of the sofa.

In the example of sofa-beds which I have here shown the sofa-back and sofa-bottom have a woven-wire mattress, D, applied to them in the manner shown and described in my said Letters Patent. A considerable space therefore exists between the mattress and the outer sides of the frame of the back, as indicated in Fig. 3. This space I utilize for the purpose of storing the bedclothes away when they are not needed.

E E are doors hinged to the back A at their lower ends, so as to be capable of folding outward or downward. I secure the doors E E in their closed position by means of hooks $b b$, pivoted thereto, and eyes or staples $c c$, rigidly fastened to the back-frame. In order to secure good ventilation, I construct these doors by securing comparatively narrow strips $d d$ to cleats $e e$, and I arrange the strips $d d$ apart from each other, so as to leave spaces $f f$ between them.

F is a wire, which I attach to the back-frame and to that part of the mattress which is applied to the back, as indicated in Fig. 3, the said wire being fastened first to the back-frame and then to the said mattress, and so on alternately, or back and forth from one to the other, thus sufficiently filling the space between the mattress and the back-frame to prevent the clothing from slipping down or

out of place. The space between the doors may be covered in any suitable way—for example, by means of a thin board, *g*, or cloth or other suitable material.

5 It will be perceived from the foregoing description, and on reference to the drawings, that the back when arranged vertically will be very firmly supported by means of the blocks C C, and yet that these blocks may be
10 turned out of the way with facility, in order to permit the back A to be lowered or arranged horizontally when the sofa is arranged for use as a bed. It will also be perceived that provision is made for storing the bed-
15 clothes in the back, so that they will be almost wholly hidden from view, and so that they may be easily arranged or deposited in the space intended for them when not in use, and also so that they are easily accessible. It will
20 also be noticed that the clothes, when thus stored or arranged in the back of the sofa, will be well ventilated.

In Figs. 5 and 6 I have shown means for supporting the unfolded or lowered back of
25 the sofa when the latter is in the position to render the sofa capable of being used as a bed. The means which I employ for this purpose consist of bars or arms G G, pivoted, respectively, to the outer ends of the frame, at the back
30 thereof, or the outer rear corners, by means of vertically-placed bolts *g g*. Upon the opposite or free ends of said bars are rigidly at-

tached legs G' G', provided with suitable casters, so that said bars are capable of being moved in a horizontal plane, (see Fig. 5,) 35 while the legs describe the arc of a circle, as indicated in dotted lines in Fig. 6. When the back of said bed is in a raised or vertical position, the legs G G are folded beneath the rear part of the frame, while the legs G' G' present 40 the position shown in Fig. 1. When drawn or swung outwardly to sustain the back when lowered thereon, they assume the position shown in Figs. 5 and 6.

I do not claim any of the features shown 45 and described in patent to John Hoey, No. 156,252; but

What I do claim, and desire to secure by Letters Patent, is—

The combination, in a sofa-bed, of the fold- 50 ing back A, having a recess therein adapted to receive the bedding, the mattress D, the wire F, extending back and forth from the said mattress to the back-frame at the lower portion of the said recess, and the doors D D, 55 substantially as and for the purposes specified.

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

EDWARD YEOMAN.

Witnesses:

F. F. WARNER,
HENRY FRANKFURTER.