

Dec. 7, 1926.

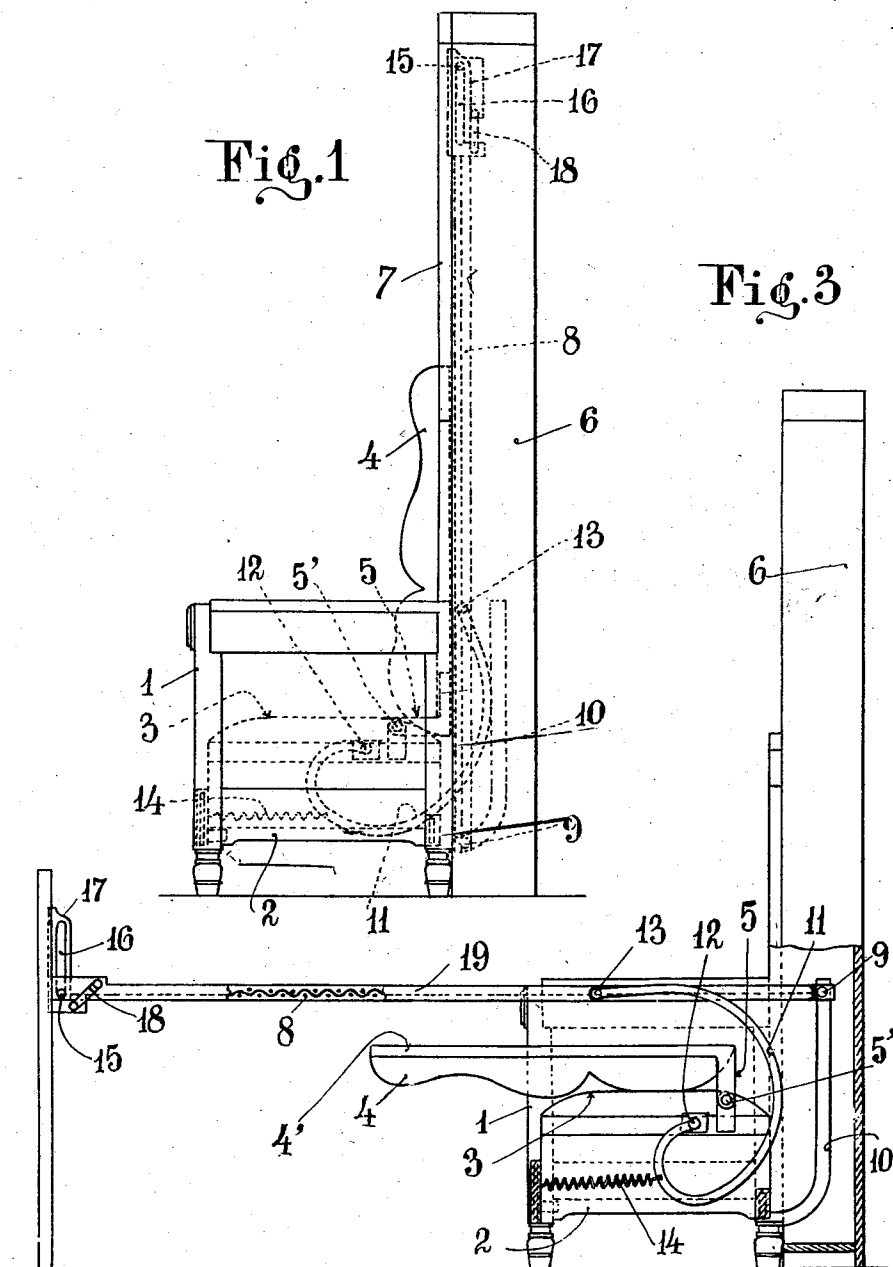
1,609,746

P. VITTONI

SOFA BED

Filed March 31, 1924

2 Sheets-Sheet 1



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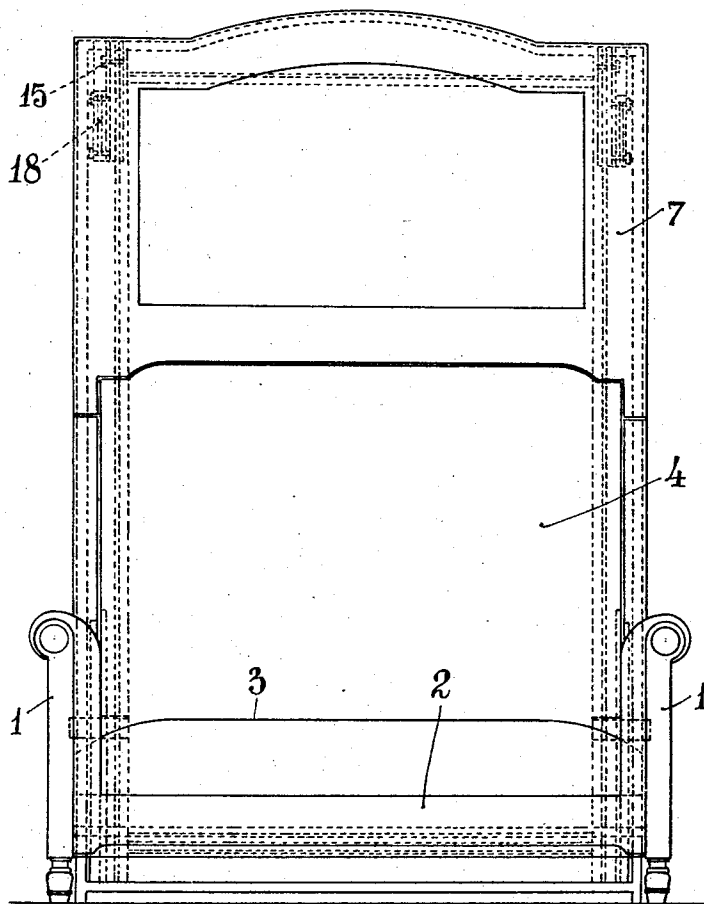


Fig. 2

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UNITED STATES PATENT OFFICE.

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SOFA BED.

Application filed March 31, 1924, Serial No. 703,147, and in Italy April 7, 1923.

The present invention relates to sofa-beds and has for its object a sofa-bed in which the bed is provided with a woven wire mattress which is separate from the sofa seat and is adapted to be concealed in the recess of a rear casing.

The annexed drawings show by way of example an embodiment of the present invention and Figure 1 is a side view of a construction of the present invention in conditions of use as a sofa; Figure 2 is a front view of the same in similar conditions and Figure 3 is a side view with parts in section, in conditions of use as a bed.

As shown on the drawing, the sofa-bed comprises a sofa-structure consisting of sides 1 and bottom frame 2, in which is located the quilted seat 3; at the rear of the same is located the back 4 whose frame 4' is pivoted on the sides 1 by means of arms 5 rotatable around pivot pins 5' secured to said sides.

The wire mattress 8 occupies a vertical position behind the seat when the sofa-bed is used as a sofa, and is enclosed in a casing 6 which is adapted to be closed partly by the back 4 of the sofa and partly by a board 7 which also acts to support the frame of said mattress.

The mattress 8 is intended to support the bed mattress and is carried by a frame 19 which is guided in its movements by two studs 9 secured to its ends and arranged to run in guide slots 10 provided in the sides of the box 6, and by two rods 11; said rods 11 are made arcuate as illustrated for the purpose of enabling them to move freely without being hindered by the sofa-seat, and their lower ends are curved backwardly and pivoted at their terminals at 12 to the sides 1 of the sofa frame, while their upper ends are pivoted at 13 to an intermediate point on the bars of the mattress frame 19.

Springs 14 are attached to the sides 1 and to the curved lower parts of the rods 11 at a point remote from the terminals of said parts, and are tensioned when the frame 19 is lowered into the position of Figure 3 and therefore by their action they reduce the stress to be exerted by the operator on lifting the said frame into its raised position shown in Figure 1.

The previously mentioned board 7 is connected to the front end of the frame 19 by means of studs 15 secured to said frame and engaged in slots 16 in guide members 17 secured along the side edges of said board 7;

the rods 18 pivoted on the members 17 and on the frame 19 act to guide said board 7 and to keep the same vertical whatever be the position given to the frame 19 carrying it.

When the parts are in the position of Figures 1 and 2 for use as a sofa, the wire mattress 8 is concealed within the casing 6 whose front opening is closed by the back 4 of the sofa and by the board 7.

For the purpose of carrying the parts into position of use as a bed, the operator firstly moves down the sofa back 4 by rotating it around studs 5' and then he grasps the lower edge of the board 7 and draws down the same to cause the frame 19 to swing around pins 12 of rods 11; in this movement the studs 9 of the frame 19 travel upwardly in the slots 10 and are stopped at the top ends of the same, while the frame 19 is moved forward by effect of the rotation of rods 11 around pivots 12 and at the same time the board 7 is held vertical by its own weight and it rests on the ground to provide a support for the front end of the frame 19 whose studs 15 bear on the bottom end of the slots 16 in guides 17.

The parts are thus in position for use as a bed and a quilted mattress may be located upon the wire mattress 8; said quilted mattress may be left permanently on the wire mattress as a suitable space for receiving it is provided by the casing 6 when the sofa-bed is in condition for use as a sofa (see Figures 1 and 2).

For restoring the parts to position for use as a sofa, the operator lifts the board 7 and frame 19, this operation being made easy by the springs 14 which have been tensioned on said frame 19 being lowered, as above described, to carry the board 7 into the position of Figure 1, and then he lifts back the back part 4.

The sofa bed according to the present invention is of simple construction and the operations required for its conversion for different uses are simple and easy; further it has the advantage that the wire mattress is entirely independent of the sofa parts and thus it may have the required size without impairing the appearance of the whole.

What I claim as my invention and desire to secure by United States Letters Patent is:—

1. A sofa bed, comprising a sofa frame; a seat therein; a vertical casing behind said

frame; a mattress frame removably arranged in said casing; arcuate guide rods having upwardly and backwardly curved lower ends which are pivoted at their terminals to the sofa frame, and having their upper ends pivoted to an intermediate point on the mattress frame; and coil springs connected at their front ends to said sofa frame and at their rear ends to the curved lower end portions of said rods at a point below the pivoted terminals thereof to assist in lifting the mattress frame from horizontal to vertical position.

2. A sofa bed, comprising a sofa frame embodying side members and a hinged back member; a seat supported between the side members; a vertical casing behind the sofa frame and having an open front, the lower part of which is normally closed by the back member of said frame; a mattress frame removably arranged in the casing and adapted to be swung outwardly through the front of said casing into horizontal position after said hinged back member has been swung forward and downward; and a board hinged to the mattress frame and adapted to close the upper part of the casing front when said mattress frame is disposed therein, and to support the front end of the mattress frame when the latter is in horizontal position.

3. A sofa bed, according to claim 2, in

which the seat is stationarily secured to the side members of the sofa frame and is wholly independent of the mattress frame; and in which the hinged back member of said sofa frame is adapted to be swung over and to rest upon the seat.

4. A sofa bed, according to claim 2, in which the seat is stationarily secured to the side members of the sofa frame; and in which the hinged back member is wholly independent of the mattress frame and casing, and is adapted to be swung over and to rest upon the seat.

5. A sofa bed comprising a sofa frame; a sofa seat in said frame, a sofa back mounted to rock in said frame, into and out of a horizontal position in which it rests upon said seat, a vertical casing behind said frame, a mattress frame removably arranged in said casing, cooperating means on said mattress frame and on said casing and sofa frame for supporting the mattress frame in vertical and horizontal positions and for guiding it during its movement from one of said positions to the other one, and a member hinged to the front end of said mattress frame for supporting it in horizontal position above and parallel with said back when the latter occupies its said horizontal position.

In testimony whereof I affix my signature.
PIETRO VITTONE.