

1,049,772.

S. SHUMSKY.
SOFA BEDSTEAD.
APPLICATION FILED JUNE 14, 1912.

Patented Jan. 7, 1913.
2 SHEETS—SHEET 1.

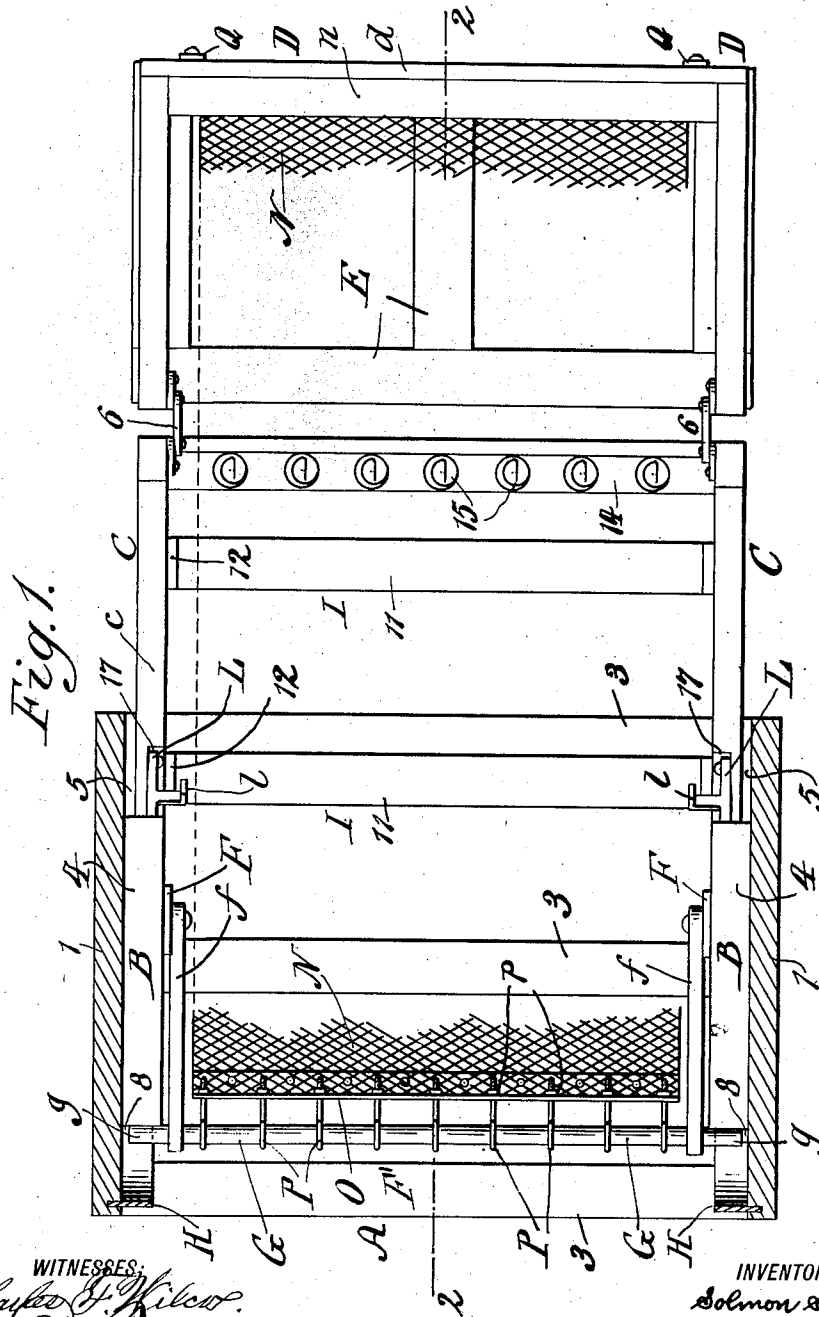


Fig. 1.

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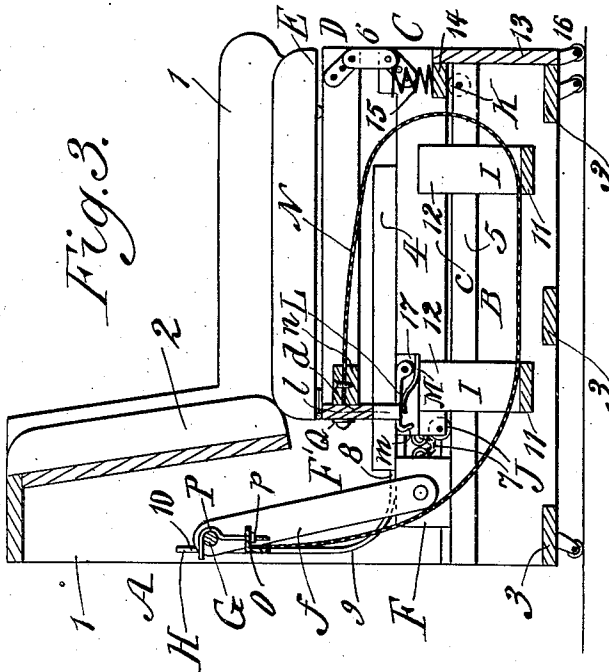


Fig. 3.

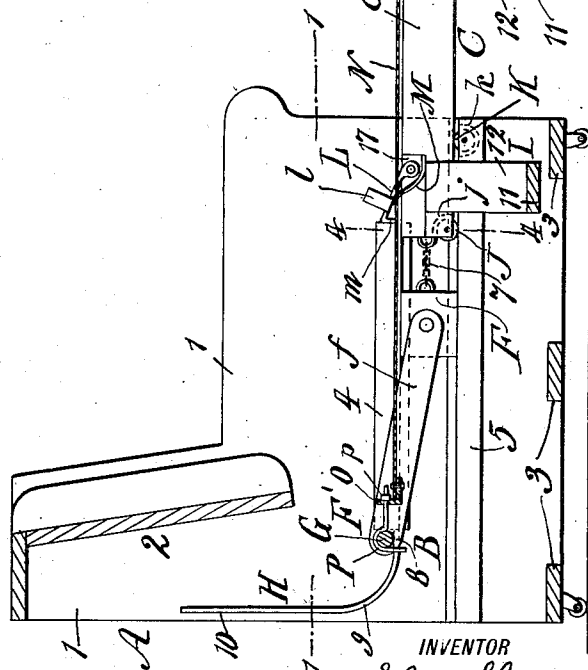


Fig. 4.

Fig. 2.

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SOFA-BEDSTEAD.

1,049,772.

Specification of Letters Patent.

Patented Jan. 7, 1913.

Application filed June 14, 1912. Serial No. 703,652.

To all whom it may concern:

Be it known that I, SOLMON SHUMSKY, a citizen of the United States, and resident of New York, county of New York, and State of New York, have invented certain new and useful Improvements in Sofa-Bedsteads, of which the following is a specification, reference being had to the accompanying drawing, forming a part thereof, in which similar letters of reference indicate corresponding parts.

This invention relates to sofa-bedsteads; the object thereof being to provide an ornamental and useful article of furniture which embodies novel features of construction so assembled that its movable parts may be easily operated and also maintained in proper relative arrangement, the parts being arranged correlatively with each other in such a manner that the proper positions necessary to comfort and stability may be maintained while the device is in use in either of its positions.

In carrying out my invention I employ a fixed casing or support, a normally folded sliding part, in telescopic engagement therewith, slides and a swinging part, as will be hereinafter fully described and specifically set forth in the annexed claims.

In the accompanying drawings forming a part of this specification, Figure 1, is a sectional plan view of my improved article of furniture taken on line 1—1, of Fig. 2, and shown extended in the form of a bedstead; Fig. 2, a longitudinal sectional elevation taken on line 2—2, of Fig. 1; Fig. 3, a similar sectional elevation of the device showing the parts in position forming a sofa; and Fig. 4, is a detail vertical sectional view taken on the line 4—4, of Fig. 2.

In the practice of my invention I employ primarily a box or supporting casing A, embodying end pieces 1, a fixed and cushioned part 2, making a sofa back, and suitable braces 3. Fixed to each end piece 1, on the inner surface thereof, is a guideway B, comprising an upper horizontal rail 4 and a lower rail 5, parallel with said upper rail. Telescopically engaging said guideway is a sliding frame-section C, to which is hinged, by means of three-part hinges 6, a folding frame-section D, having hinged thereto a cushioned frame E, making a seat when the device is employed as a sofa.

Connected to the inner end of each side part c, of the frame-section C, by means of

flexible connections, as chains 7, is a slide F, which is in pivotal connection with a swinging frame-section F', which embodies the side arms f and cross bar G, having extended ends g, which bear on supporting guide rails H; said rails are secured to the respective inner surfaces of the end pieces 1, and they embody respectively a horizontal part 8, a curved part 9 and a vertical part 10. The side parts c, are connected by means of cross-braces I, which respectively embody a horizontal part 11 and upright extension 12, said extensions being fastened to said side parts c. The horizontal parts of these braces act as a support for the mattress and its supporting fabric when the device is folded for use as a sofa. The frame-section C, is also provided with a front wall 13, and an overhanging cross shelf 14, having springs 15, thereon which are used as an auxiliary support for the mattress. The front wall 13, is provided with casters or rollers 16, which bear on the floor. To facilitate backward and forward movements of the sliding frame-section C, and reduce friction, rollers J and K, are provided, the former being mounted within recesses j, of the parts c, and the latter within the recesses k, of the lower guide rails 5. This arrangement of rollers not only reduces friction but maintains the sliding frame-section in true horizontal alinement.

To prevent accidental rearward movement of the sliding frame-section when the device is extended into form of a bed, as shown in Fig. 2, of the drawings, a spring-actuated latch L, is pivotally mounted within a recess 17, formed in the inner end of each part c. These latches are normally pressed upwardly by means of leaf springs M, and they are each provided with a downwardly extended stop m, for engagement with the outer ends of the upper guide rails 4, as shown by Fig. 2, of the drawings. An extension 1, is also formed on each latch; these engage the foot board d, of the frame-section D, when the same is folded, whereby the latches are pressed downwardly and allowed to slide beneath the rails 4, as shown by Fig. 3, of the drawings.

Extended horizontally, when the device is used as a bed, between the foot board d, of the frame-section D, and the cross bar G, of the frame-section F' is a woven wire fabric N, which is fixed at one end to the cross beam n, of the frame-section D, and

at the other end to an angle-iron cross piece O, having a plurality of hooks P, which engage over the cross bar G, of the swinging frame-section F'. The extended parts of the hooks P, are threaded, and said parts engage nuts p, whereby slack may be taken up in the fabric N. The said fabric N, acts as a means for supporting a mattress and bed clothing used when the device is employed as a bed; and as an auxiliary support I employ spiral springs 15, which are mounted on the shelf 14, these prevent sagging of the fabric N, when a mattress is thereon and persons are reclining on said mattress, the device being used as a bed.

When the device is extended to form a bed I provide legs Q, these are mounted on the foot board d, and fold over thereon when the device is used as a sofa, and they are swung into vertical position when the device is extended into bed form.

In the operation and use of the invention, when it is desired to convert the same from its initial or sofa-shape to that of a bed, it is necessary to move the sliding frame section C, forwardly to the full extent of its movement. This action automatically carries the swinging frame-section F', downward and forward into position shown by Fig. 2, of the drawings, with its cross bar G, abutting against the inner ends of the guide rail 4. Then the folding frame-section D, is swung upwardly and outwardly and placed into horizontal position. The act of swinging said frame-section D, upwardly releases the latches L, and permits them to automatically engage the outer ends of the guide rails 4, and further movement of said section D, stretches the supporting fabric N, taut and on a horizontal plane. When reconverting the device, the section D, is first folded over on the section C. This action forces the latches L, downwardly and admits of the sliding parts being pushed inwardly, whereby the swinging frame-section F', is swung upwardly into position shown by Fig. 3, of the drawings.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is:

1. A sofa-bedstead comprising a box and an extensible framework telescopically engaging said box, said framework comprising a sliding frame-section having an outwardly swinging frame-section hinged thereto, and an upwardly swinging frame-section, and slides pivoted thereto, and guide ways for said slides and sliding section, and guide rail for said upwardly swinging section, and means flexibly connecting said slides and sliding section, substantially as shown and described.

2. In a sofa-bedstead, the combination, with a box having a cushioned back and end

pieces, and horizontal guide ways on said end pieces, and upwardly extended guide rails leading from said guide ways; of a telescopically connected sliding frame-section engaging said guide ways and having an outwardly swinging frame-section hinged to its outer end part, and slides flexibly connected to its inner end part, and an upwardly swinging frame-section pivoted to said slides, said upwardly swinging section comprising side arms and cross bar, said slides engaging said guide ways and said cross bar engaging said guide rails, substantially as shown and described.

3. In a sofa-bedstead, the combination, with a box having a cushioned back and end pieces, and horizontal guide ways on said end pieces, and rearwardly and upwardly extended guide rails leading from said guide ways; of a sliding frame-section telescopically engaging said guide ways, an outwardly swinging frame-section hinged thereto, and a cushioned seat on said outwardly swinging frame-section, and slides engaging said guide ways, and flexible means comprising chains connecting said slides to said sliding frame-section, and an upwardly swinging frame-section embodying side arms and a cross bar, said side arms pivoted to said slides, and said cross bar engaging said guide rails.

4. In a sofa-bedstead, the combination, with a box having a cushioned back and end pieces, and horizontal guide ways, and rearwardly and upwardly extended guide rails leading from said guide ways, of a sliding frame-section having its sides in telescopic engagement with said guide ways, a swinging frame section on said sliding frame-section, and a cushioned seat on said swinging frame-section, the sides of said sliding section having recesses therein, and spring actuated latches in said recesses, said latches adapted for locking the sliding frame section in its upwardly extended position, and slides engaging said guide ways, and chains connecting said slides to the inner ends of the sides of the sliding frame-section, whereby said sliding frame-section has limited sliding movement independently of said slides, and an upwardly swinging frame-section embodying side arms and a cross bar, said cross bar having extended ends which engage said guide rails, and said arms in pivotal engagement with said slides, substantially as shown and described.

5. In a sofa-bedstead, the combination, with a box having a cushioned back and end pieces, and horizontal guide ways, and rearwardly and upwardly extended guide rails leading from said guide ways, and roller bearings in said guide ways; of a sliding frame-section having its sides in telescopic engagement with said guide ways and having roller bearings; an outwardly swinging

frame-section hinged to said sliding frame-section and having a cushioned seat thereon, and a foot board extended across its free end, the sides of said sliding section having
5 recesses thereon, and spring actuated latches pivoted within said recesses, said latches having extensions for engaging the foot board of said outwardly swinging frame-section, said latches adapted for locking the
10 sliding frame-section in its outwardly extended position, and slides engaging said guide ways, and chains connecting said slides to the inner ends of the sliding frame-section, whereby said sliding frame-section
15 has limited sliding movement independently of said slides, and an upwardly swinging

frame section embodying side arms and a cross bar, said side arms pivoted to said slides, and said cross bar engaging said guide rails at its ends, and a woven wire fabric
20 connected at its respective ends to the free end of the said outwardly swinging frame-section and the said cross bar, substantially as shown and described.

In testimony that, I claim the foregoing
25 as my invention, I have signed my name in presence of two witnesses, this 10th day of June, 1912.

SOLMON SHUMSKY.

Witnesses:

CHARLES F. WILCOX,
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