

R. COOPERSMITH.
SOFA BEDSTEAD.

APPLICATION FILED JUNE 24, 1910.

978,270.

Patented Dec. 13, 1910.

2 SHEETS-SHEET 1.

Fig. 1.

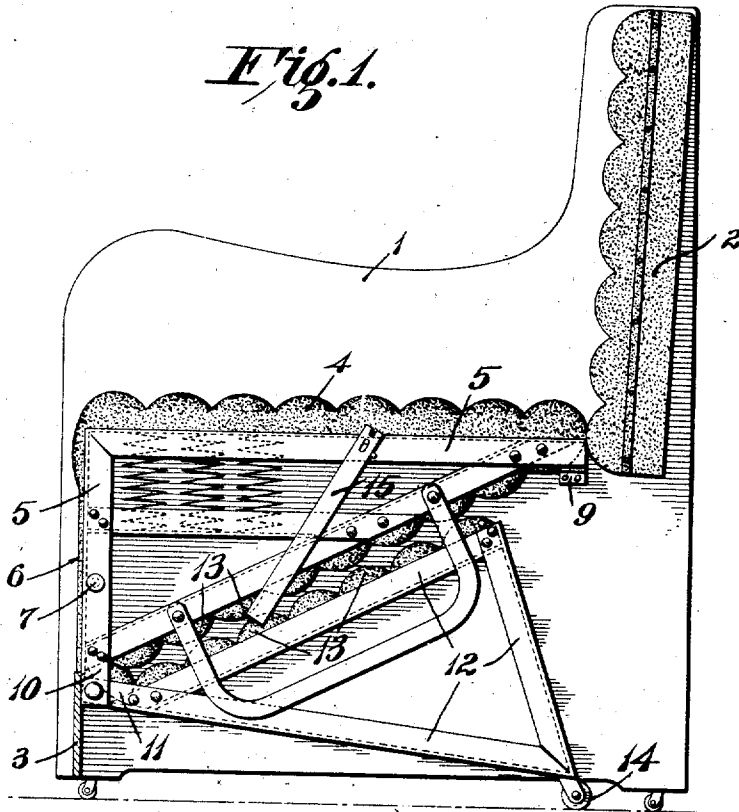


Fig. 3.

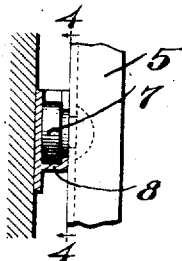
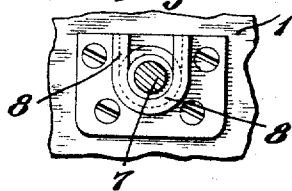


Fig. 4.



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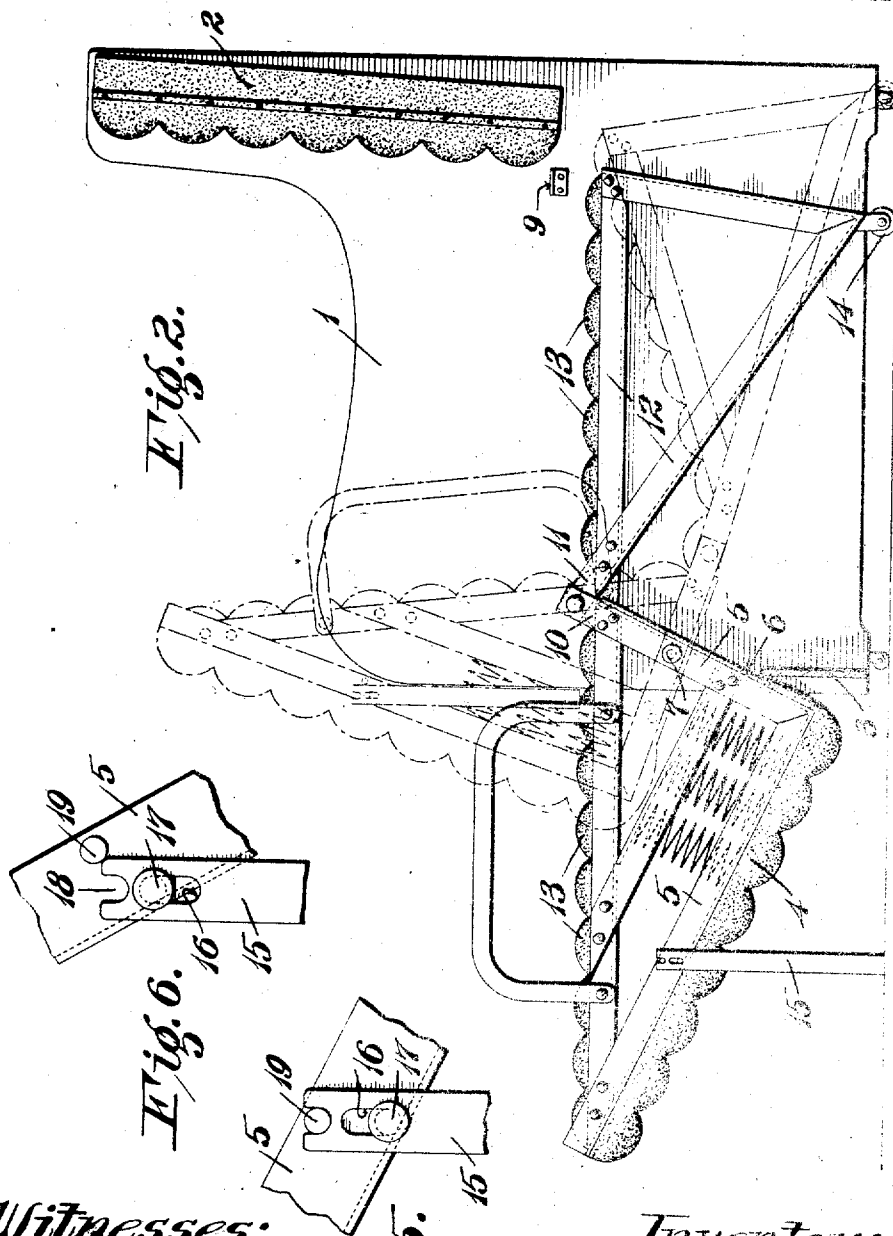
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

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SOFA-BEDSTEAD.

978,270.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, RUDOLPH COOPER-SMITH, a citizen of the United States, and a resident of the city of St. Louis and State of Missouri, have invented a new and useful Improvement in Sofa-Bedsteads, of which the following is a specification.

This invention relates to sofa-bedsteads.

It has for its principal objects to produce a convertible sofa and bedstead of simple and compact construction which is light and rigid and easily operated, to balance the folding frames so that they will not accidentally fold when opened as a bed, and to attain certain advantages hereinafter more fully appearing.

The invention consists in the parts and in the arrangements and combinations of parts hereinafter described and claimed.

In the accompanying drawings which form part of this specification and wherein like symbols refer to like parts wherever they occur, Figure 1 is an end elevation with one of the end members of the sofa main frame removed; Fig. 2 is a similar view showing the device converted into a bedstead; Fig. 3 is a fragmentary view, partly in section and partly in elevation, showing a pivot and bearing for the reversible section of the frame; Fig. 4 is a section on the line 4-4 of Fig. 3; and Figs. 5 and 6 are fragmentary views, on an enlarged scale, showing the action of the supporting legs for the reversible frame.

The main or body frame of the sofa comprises end members 1 and a stationary back 2 to which the end members are connected. A base board 3 connects the lower front portion of the end members 1. As shown in the drawings, the end members 1 are in the form of closed panels, but obviously the same may be made as open frames; and, in so far as the general arrangement of the main frame of the sofa is concerned, it may be of any desirable construction.

An upholstered cushion or seat 4 is mounted on the upper side of a reversible pivotal frame 5. The front of the frame 5 is preferably closed by a covering 6 which is a continuation of the covering material of the seat 4. The frame 5 is a box frame, triangular in transverse section. That is, it comprises triangular end frames or members which are rigidly connected by suitable longitudinal members (not shown), and suit-

ably braced. The vertical end members of the frame 5 are provided with outwardly extending trunnions 7 which are pivotally mounted in box castings 8 secured to the inner sides of the end members 1 near the front edges thereof. The end members are normally supported at their inner corners on brackets 9 which are secured to the inner faces of the end members 1.

Extensions 10 at the lower corners of the triangular end members of the frame 5 are pivotally attached to the corner extensions 11 of triangular end members of a secondary frame 12. A mattress 13 is mounted on the adjacent inclined sides of the two cooperating frames 5, 12. This mattress is preferably a continuous flexible one so that it will readily fold at the breaking point between the two frames 5, 12. The secondary frame is supported at its lowermost corners by castor wheels 14 or rollers which rest upon the floor. The triangular end members of the secondary frame 12 are so proportioned with respect to those of the reversible frame 5, that when said reversible frame is swung over on its pivots 7 until its normally inclined side on which the mattress 13 is mounted assumes a horizontal position, as shown in Fig. 2, the normally inclined side of the secondary frame on which the mattress 13 is mounted also assumes a horizontal position in the same plane. In this opened position of the two frames, the reversible frame is supported near its outer edge by legs or supports 15 which are pivotally mounted on the opposite ends of the frame. Preferably, said legs each have a longitudinal slot 16 therein which slidably fits a headed stud 17 projecting from the outer side of the frame member. The legs 15 also have notches 18 in their ends so as to receive locking studs or pins 19 which project from the frame members adjacent to said studs 17. The slot, notch and cooperating studs are so arranged, that when the stud 17 is at the bottom of the slot 16, the stud 19 also rests on the bottom of the notch 18. By this arrangement, the legs 15 are held against accidental collapse when the parts are in the position shown in Fig. 2.

When the frames are open as shown in Fig. 2, the pivotal connection between the parts 10 and 11 of the respective frames 5, 12 is nearly in vertical alinement with the axis of the pivot studs or trunnions 7; and,

as said pivot studs 7 are substantially at the edge of the reversible frame, the proportionate leverage of the device is such that a great weight can be sustained at or near the 5 pivot points between the parts 10 and 11 without tilting the reversible frame.

To open the device to make it into a bedstead and close the same back into its normal condition as a sofa, the reversible frame 10 can be readily swung on its pivots and the secondary frame will accommodate itself to such movement owing to its pivotal connection with the reversible frame and its arrangement of supporting rollers 14 which 15 roll on the floor.

Obviously, the device admits of considerable modification without departing from my invention. Therefore, I do not wish to be limited to the specific construction and 20 arrangement shown.

What I claim is:

1. A convertible sofa-bedstead comprising a main frame, a reversible triangular frame pivotally mounted on said main 25 frame, and a secondary triangular frame pivotally attached to said reversible frame, said reversible frame being arranged and adapted to provide a support for the sofa seat in one of its positions and a support 30 for the bed mattress in its other position, and said secondary frame being arranged and adapted to accommodate itself to the movement of said reversible frame and form a support for the bed mattress in the same 35 plane as the reversible frame.

2. A sofa-bedstead comprising a reversible frame which is triangular in transverse section, said frame being pivoted at its opposite ends, a seat mounted on one side of 40 said reversible frame and a mattress mounted on the side of said frame opposite to that on which the seat is mounted, and a secondary frame pivotally connected to said first mentioned frame, said secondary frame 45 being also triangular in transverse section, said secondary frame being so proportioned with respect to said first mentioned frame, that when said first mentioned frame is reversed and its side on which the mattress is 50 mounted is brought into a horizontal plane, one side of the secondary frame also assumes a horizontal position in the same plane, and when said first mentioned frame is in the position with the side on which 55 the seat is mounted in a horizontal plane, said secondary frame is folded under said first mentioned frame, and a mattress on the side of said secondary frame which co-operates with the mattress side of said first 60 mentioned frame.

3. A sofa-bedstead comprising a reversible frame which is triangular in transverse section, said frame being pivotally mounted 65 at its opposite ends near one of its sides, one side of said frame being normally supported

in substantially horizontal position and having a seat thereon, the other side of said frame being normally in inclined position and having a mattress thereon, a secondary frame pivotally connected to said first mentioned frame, said secondary frame being 70 also triangular in transverse section, one side of said secondary frame being normally in substantially parallel relation to the inclined side of said first mentioned frame 75 and having a mattress thereon, said two mentioned frames being so proportioned with respect to each other, that when the first mentioned frame is swung over on its pivots and its normally inclined mattress 80 side is moved into horizontal position, the secondary frame is also moved so that its mattress side is in the same plane horizontally as the mattress side of said first mentioned frame. 85

4. A sofa-bedstead comprising a reversible frame which is triangular in transverse section, said frame being pivotally mounted at its opposite ends near one of its sides, one side of said frame being normally supported 90 in substantially horizontal position and having a seat thereon, the other side of said frame being normally in inclined position and having a mattress thereon, a secondary frame pivotally connected to said first mentioned 95 frame, said secondary frame being also triangular in transverse section, one side of said secondary frame being normally in substantially parallel relation to the inclined side of said first mentioned frame 100 and having a mattress thereon, said two mentioned frames being so proportioned with respect to each other, that when the first mentioned frame is swung over on its pivot and its normally inclined mattress 105 side is moved into horizontal position, the secondary frame is also moved so that its mattress side is in the same plane horizontally as the mattress side of said first mentioned frame, and means for supporting 110 said first mentioned frame in its position with the mattress side uppermost.

5. A sofa-bedstead comprising a reversible frame which is right angled triangular in transverse section, said frame being pivoted 115 at its opposite ends near one of its right angle sides and the other right angled side being uppermost in a horizontal plane and having a seat thereon, a mattress mounted on the inclined side of said frame, 120 and a secondary frame pivotally connected to the lowermost corner of said first mentioned frame, said secondary frame being also triangular in transverse section and so proportioned with respect to said first mentioned 125 frame that it lies normally under the same, one side of said secondary frame having a mattress thereon and being arranged and adapted to assume a horizontal position in the same plane with the nor- 130

mally inclined side of said first mentioned frame when it is moved into horizontal position.

6. A sofa-bedstead comprising a reversible frame which is right angled triangular in transverse section, said frame being pivotally mounted at one of its right angled sides and normally supported so that its other right angled side is in a substantially horizontal plane, said horizontal side having a seat mounted thereon, the inclined side of said reversible frame having a mattress mounted thereon, and a secondary frame which is also triangular in transverse section, said secondary frame having corner extensions at its opposite ends which are pivotally connected to corner extensions at the opposite ends of the vertical side of said first mentioned frame, said secondary frame being arranged and adapted so that when said reversible frame is swung over on its pivots to bring its mattress in a horizontal plane, one side of said secondary frame is also automatically brought into the same horizontal plane, and a mattress on said correlated side of the secondary frame.

7. A sofa-bedstead comprising a reversible frame which is triangular in transverse section, said frame having a seat on one of its sides and a mattress on one of its other sides, means for normally supporting said frame so that the seat is in substantially horizontal position, and a secondary frame pivotally connected to said first mentioned frame, said secondary frame being also triangular in transverse section, and a mattress on one side of said secondary frame, said secondary frame being arranged and adapted to be folded under said first mentioned frame in the normal position thereof and being also arranged and adapted to be moved into a position with its mattress side in a horizontal plane which is the same as that of the mattress side of the reversible frame when it is uppermost.

8. A convertible sofa-bedstead comprising a reversible frame which is triangular in transverse section, said frame being arranged and adapted to provide a support for the sofa seat in one of its positions and a support for the bed mattress in its other position, and a secondary frame arranged and adapted to constitute a support for the bed

mattress in the same plane with the mattress side of said reversible frame when the latter is uppermost.

9. A convertible sofa-bedstead comprising a reversible frame which is triangular in transverse section, one side of said reversible frame having the sofa seat mounted thereon and the opposite side of said frame having a mattress mounted thereon, and a secondary frame operatively connected to said first mentioned frame, said secondary frame having a mattress thereon and being arranged and adapted to be moved into the same plane as the mattress side of said reversible frame when the latter is moved into bed position.

10. A convertible sofa-bedstead comprising a main frame, a reversible frame pivotally mounted on said main frame, said reversible frame being triangular in transverse section, and a secondary frame pivotally attached to said reversible frame, said reversible frame being arranged and adapted to provide a support for the sofa seat in one of its positions and a support for the bed mattress in its other position, and said secondary frame being arranged and adapted to accommodate itself to the movement of said reversible frame and form a support for the bed mattress in the same plane with the mattress side of said reversible frame.

11. A sofa-bedstead comprising a reversible frame which is right-angled triangular in transverse section, said frame being pivoted at its opposite ends with one of its right-angled sides uppermost and having a sofa seat mounted thereon, a mattress on the inclined side of said frame, and a secondary frame pivotally connected to said first mentioned frame, said secondary frame having a mattress thereon and lying normally under said first mentioned frame, and being arranged and adapted to assume a horizontal position in the same plane with the normally inclined side of said first mentioned frame when the latter is moved into horizontal position.

Signed at St. Louis, Missouri, this 22nd, 100 day of June, 1910.

RUDOLPH COOPERSMITH

Witnesses:

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J. B. MEGOWN.