

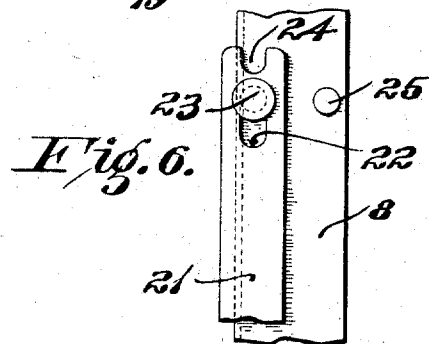
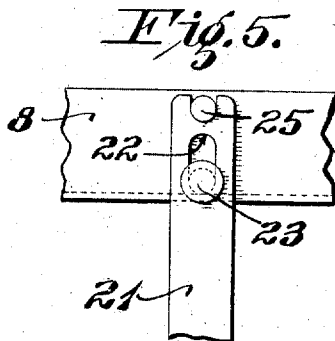
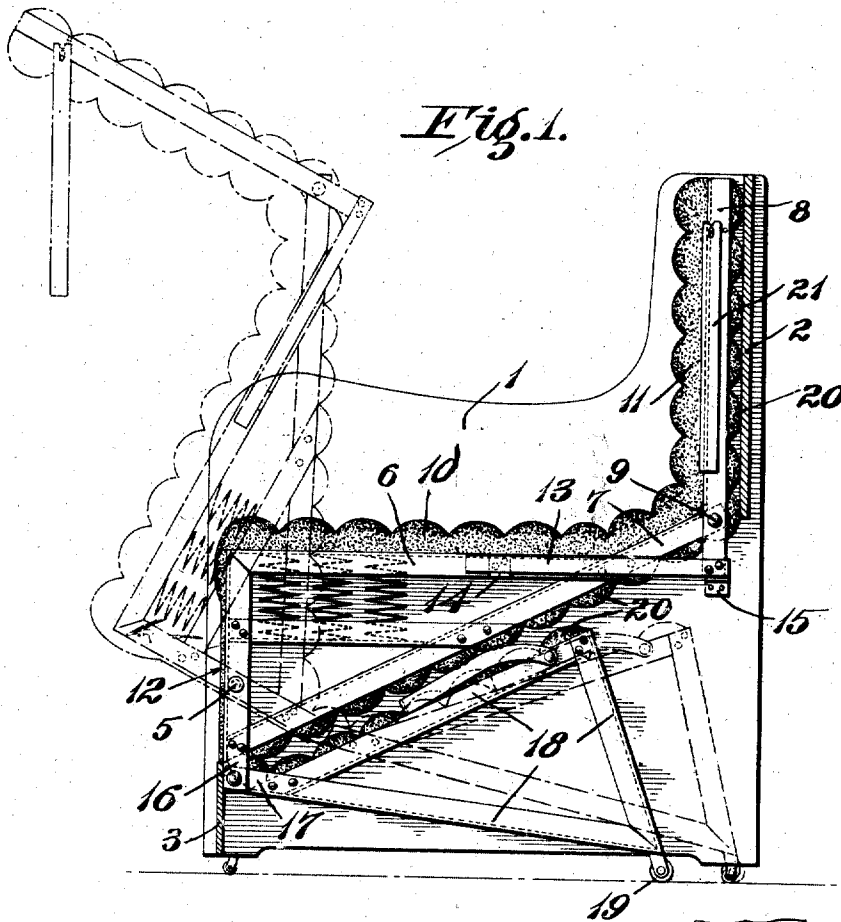
R. COOPERSMITH.
SOFA BEDSTEAD.

APPLICATION FILED JUNE 24, 1910.

994,720.

Patented June 13, 1911.

2 SHEETS—SHEET 1.



Witnesses:

Edgar T. Farmer.

G. A. Pennington

Inventor:

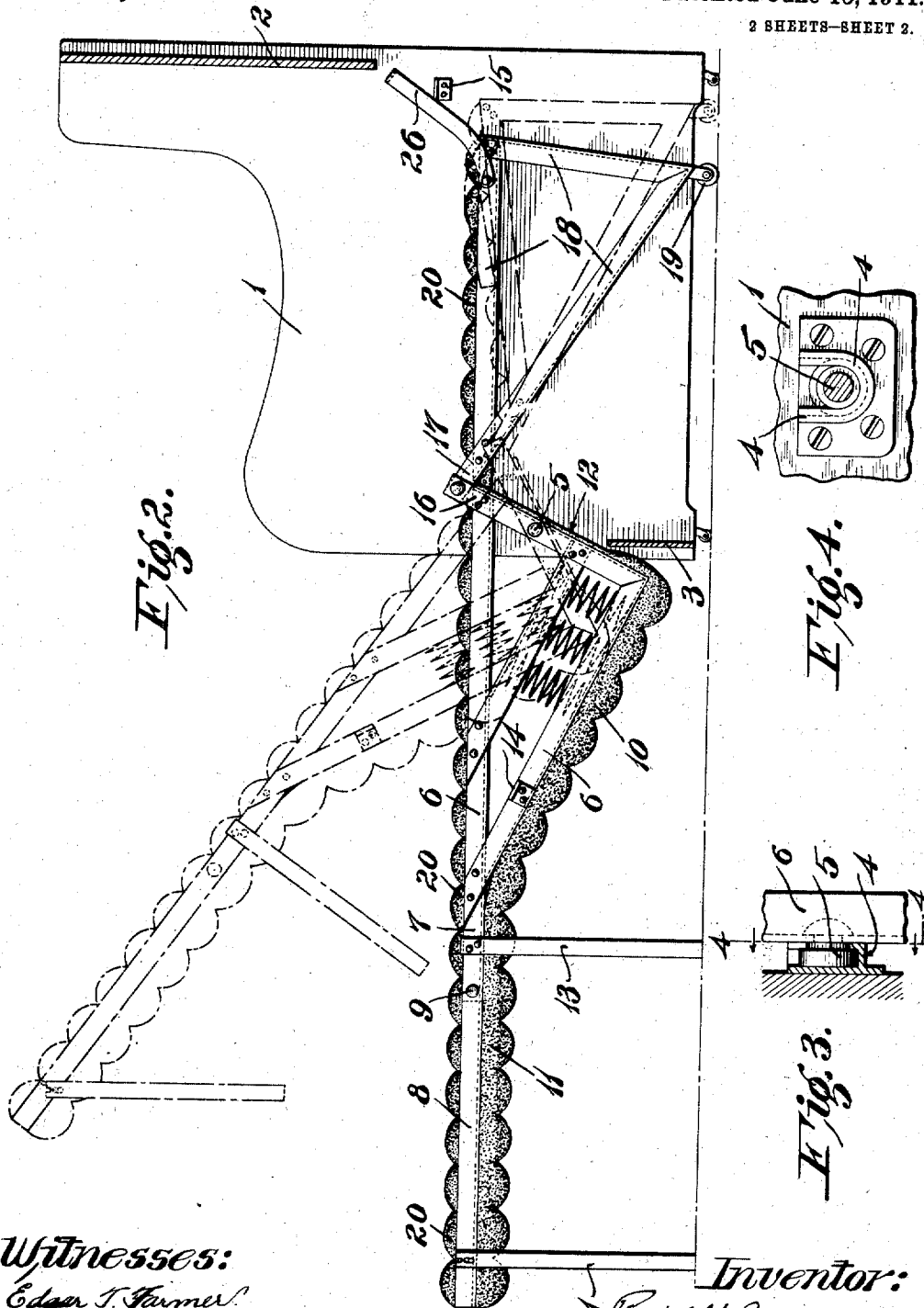
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UNITED STATES PATENT OFFICE.

RUDOLPH COOPERSMITH, OF ST. LOUIS, MISSOURI.

SOFA-BEDSTEAD.

994,720.

Specification of Letters Patent. Patented June 13, 1911.

Application filed June 24, 1910. Serial No. 568,610.

To all whom it may concern:

Be it known that I, RUDOLPH COOPERSMITH, 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 10 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 15 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.

20 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 25 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 30 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.

35 The main or body frame of the sofa comprises end members 1 which are connected at their upper rear portions by a back board 2 and at their lower front portions by a base-board 3. As shown in the drawings, the end 40 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. That is, cross bars and suitable 45 braces may be substituted for the boards 2 and 3.

On the inner faces of the end members 1 of the main frame, near the front edges thereof, are secured pocket castings or members 4. 50 Trunnions 5 on the opposite ends of a reversible box frame 6 are journaled in these pocket castings. The box frame is triangular in transverse section; that is, it comprises triangular end frames or members 55 which are rigidly connected by suitable lon-

gitudinal members (not shown) and suitably braced. The inclined members of the triangular end frames are extended rearwardly, as at 7; and having a back frame 8 pivotally 60 connected thereto, as at 9.

Upholstered cushions 10, 11 are respectively secured on the top side of the reversible frame 6 and on the front side of the back frame 8 to constitute the seat and back 65 for the sofa. Preferably, the cushions 10, 11 are made in one continuous piece, and the covering material is also preferably extended over the front of the frame 6 as at 12.

The end members of the back frame 8 are 70 extended downwardly beyond the pivots 9 and have elongated members or bars 13 rigidly secured at right angles thereto. The outer ends of the members 13 rest normally on stops or brackets 14 which are secured to 75 the outer sides of the horizontal members of the triangular end frames of the frame 6; and the ends of the back frame members are normally supported on stops or brackets 15 which are secured on the inner faces of 80 the end members 1 of the main frame. By this means, the seat is supported in normal position and the back is held from tilting forwardly.

The vertical members of the triangular 85 end frames of the frame 6 are extended downwardly as at 16 and are pivotally attached to corner extensions 17 of a secondary frame 18. This secondary frame is also tri- 90 angular in transverse section. It is supported at the lowermost corners of its opposite ends by caster wheels or rollers 19 which rest on the floor.

A mattress 20 is mounted on the adjacent 95 inclined sides of the frames 6, 18, and on the rear side of the back frame 8. This mattress 20 is preferably a continuous flexible one, so that it will readily fold at the breaking point between the respective co- 100 operating frames.

The triangular end members of the secondary frame 18 are so proportioned with respect to those of the reversible frame 6, that when said reversible frame is swung 105 over on its pivots 5 until its normally inclined side on which one end portion of the mattress 20 is mounted assumes a horizontal position, as shown in Fig. 2, the normally inclined side of the secondary frame 18 on which the middle portion of the mat- 110 tress 20 is mounted also assumes a horizontal position in the same plane. The

back frame 8 is also straightened out in the same plane when the legs or supports 13 rest on the floor. In this position, the frame 8 is supported near its outer corners by legs or supports 21 which are pivotally mounted on the opposite ends of the frame. Preferably, said pivotal legs 21 each have a longitudinal slot 22 therein which slidably fits a headed stud 23 projecting over the outer side of the frame. The legs 21 also have notches 24 in their ends so as to receive locking studs or pins 25 which project from the frame members adjacent to the studs 23. The slot, notch and cooperating studs are so arranged that when the stud 23 is at the bottom of the slot 22, the stud 25 also rests on the bottom of the notch 24. By this arrangement, the pivotal legs are held against accidental collapse when the frames are arranged as a bed.

A folding frame 26 is mounted at the inner upper edge of the secondary frame 18 so that it can be collapsed out of the way when it is desired to move the frames 6 and 18 to the positions shown in Fig. 1, and raised to constitute a pillow rest when the frames are opened as a bed.

By the herein described construction, the sofa can be readily converted into a bed and as readily restored to its normal condition. The reversible frame which carries the seat and middle portion of the mattress being pivoted at its opposite ends and near the vertical side thereof, the pivotal connection between the reversible frame and the secondary frame is nearly in vertical alinement with the axis of the supporting pivot studs and the proportionate leverage of the device is such that a great weight can be sustained at or near the pivot points between the reversible and secondary frames without tilting the reversible frame; and the reversible frame is supported at its outer edge by the back frame which is supported on its legs 13, 21.

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 arrangement shown.

What I claim is:—

1. 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 another of its sides, a back frame pivotally mounted on said reversible frame at the normally rear edge thereof, said back frame having a mattress on its rear side and being arranged and adapted to be moved in alinement with the mattress side of said reversible frame when the latter is reversed to bring its mattress uppermost, and a secondary frame pivotally connected to the lower front edge of said reversible frame, said secondary frame

being also triangular in transverse section, a mattress on one side of said secondary frame, and said secondary frame being arranged and adapted to be folded under said reversible frame in the normal position thereof and being also arranged and adapted to be moved into a position with its mattress side in the same plane as that of the mattress sides of the reversible frame and back frame, respectively, when the same are in horizontal position.

2. A sofa-bedstead comprising a main frame, a reversible frame pivotally mounted at its opposite ends on said main frame, said reversible frame being triangular in transverse section, a secondary frame pivotally attached to said reversible frame, said reversible frame having a seat on one of its sides and a mattress on another of its sides, and said secondary frame also having a mattress on one of its sides, said two mentioned frames being so arranged and adapted, that when said reversible frame is reversed to bring its mattress side uppermost in a horizontal plane, the mattress side of said secondary frame is simultaneously brought into the same horizontal plane, whereby said correlated sides of the two mentioned frames form a continuous mattress support, and a back frame pivotally connected to the normally rear edge of said reversible frame, said back frame having a mattress on its rear side and being arranged and adapted to be moved with its mattress side in alinement with the mattress side of said reversible frame in the opened position thereof.

3. A sofa-bedstead comprising a reversible frame which is right angled triangular in transverse section, said frame having one of its right-angled sides foremost and normally vertical, and being pivoted at its opposite ends near said right angled side, and the other right angled side being normally uppermost in a horizontal plane and having a seat thereon, a mattress mounted on the inclined under side of said frame, a secondary frame pivotally connected to the lowermost corner of said reversible frame, said secondary frame being also triangular in transverse section and being so proportioned with respect to said reversible frame that it lies normally under the latter, 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 mattress side of said reversible frame when the latter is reversed to bring its mattress side uppermost in horizontal position, and a back frame pivotally mounted on the rearmost corner of said reversible frame, said back frame having a mattress on its rear side and being arranged and adapted to be moved with its mattress side in alinement with the mattress side of said reversible frame.

4. A sofa-bedstead comprising a reversible frame which is triangular in transverse section, said frame having a seat on one of its sides which is normally uppermost and a
 5 mattress on another of its sides which is inclined beneath the seat side of said frame, a secondary frame pivotally connected to said reversible frame at the lowermost corner thereof, said secondary frame having a mat-
 10 tress thereon and lying normally under said reversible frame and being so arranged and adapted, that when the reversible frame is reversed to bring the normally inclined mat-
 15 tress side uppermost in horizontal position, the mattress side of said secondary frame is also brought into horizontal position in the same plane, and a back frame pivotally
 20 mounted on the rear edge of said reversible frame, said back frame having a mattress mounted on its rear side and being arranged and adapted to be swung into a horizontal position with its mattress side in alinement with the mattress side of said reversible frame to constitute a continuation of the
 25 same, and means on said back frame for supporting the same in its opened position and also supporting the outer edge portion of said reversible frame.

5. A sofa-bedstead comprising a reversible
 30 frame which is triangular in transverse section, said frame having a seat on one of its sides which is normally uppermost and a mattress on another of its sides which is inclined beneath the seat side of said frame, a
 35 secondary frame pivotally connected to said reversible frame at the lowermost corner thereof, said secondary frame being also triangular in transverse section and lying normally under said reversible frame and
 40 being so arranged and adapted that when the reversible frame is reversed to bring its normally inclined side uppermost in horizontal position, one side of said secondary frame is also brought into horizontal position in the same plane, a mattress on said
 45 correlated side of the secondary frame, and a back frame pivotally mounted on said reversible frame, said back frame having a mattress on its rear side and being arranged
 50 and adapted to swing into alinement with the mattress side of said reversible frame to constitute a continuation of the same from

the side opposite that to which said secondary frame is connected, an elongated member rigidly secured to said back frame adjacent
 55 to its pivot and extending forwardly, a stop on said reversible frame for supporting the free end of said forward extension of the back frame, whereby the back frame is held from tilting forwardly in its normal position, and a member pivotally secured to the
 60 upper portion of said back frame, said rigid member and said pivotal member being arranged and adapted to support the back frame in its open position.

6. A sofa-bedstead comprising a reversible frame which is triangular in transverse section, one side of said frame being normally uppermost, in horizontal position, and having a seat on said normally horizontal side,
 70 and a mattress on another of its sides which is inclined beneath the seat side of said frame, a secondary frame pivotally connected to said reversible frame in coöperative relation to the lowermost corner thereof, said secondary frame having a mattress
 75 thereon and lying normally under said reversible frame, and being so arranged and adapted, that when the reversible frame is reversed to bring its normally inclined mat-
 80 tress side uppermost in horizontal position, the mattress side of said secondary frame is also brought into horizontal position in the same plane, and a back frame pivotally mounted on said reversible frame in coöperative relation to the rearmost corner thereof,
 85 said back frame having a mattress mounted on its rear side and being arranged and adapted to be swung into position with its mattress side in alinement with the mattress side of
 90 said reversible frame so as to constitute a continuation of the same, and supporting legs on said back frame arranged and adapted to support the same in its opened position, and also for supporting the outer edge portion of said reversible frame in its opened position.

Signed at St. Louis, Missouri, this 21st day of June, 1910.

RUDOLPH COOPERSMITH.

Witnesses:

G. A. PENNINGTON,
 J. B. MEGOWN.