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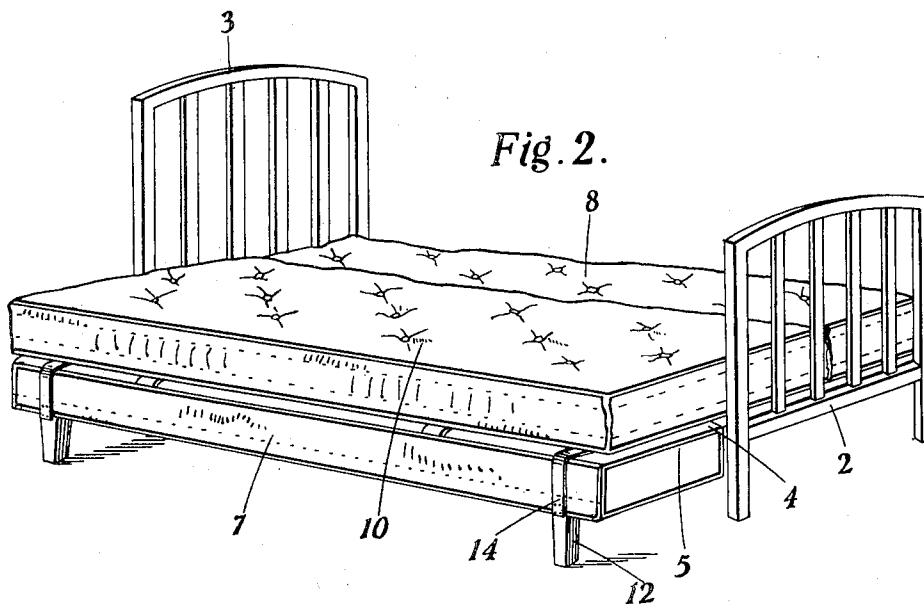
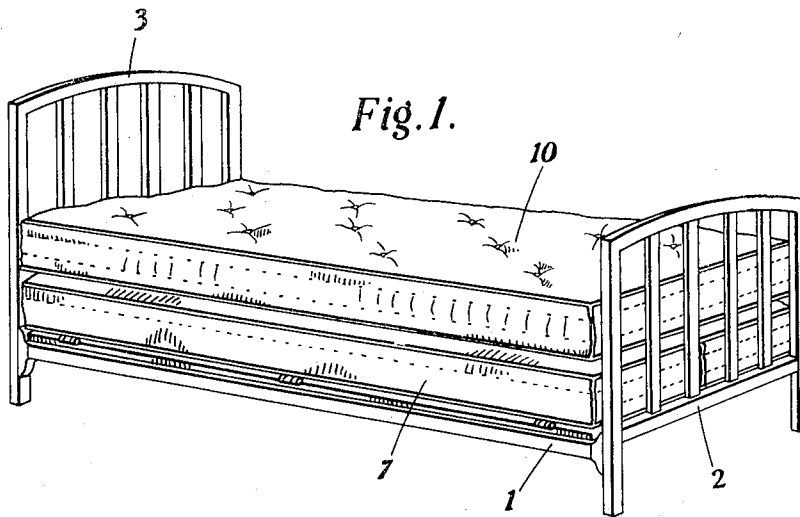
T. SALTER

1,933,342

ARTICLE OF FURNITURE HAVING EXTENSIBLE UPHOLSTERED SURFACES

Filed Dec. 28, 1932

3 Sheets-Sheet 1



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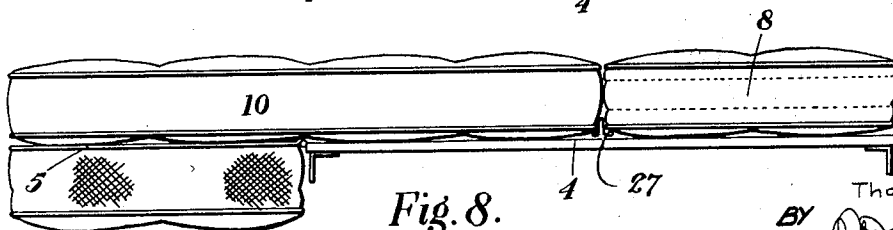
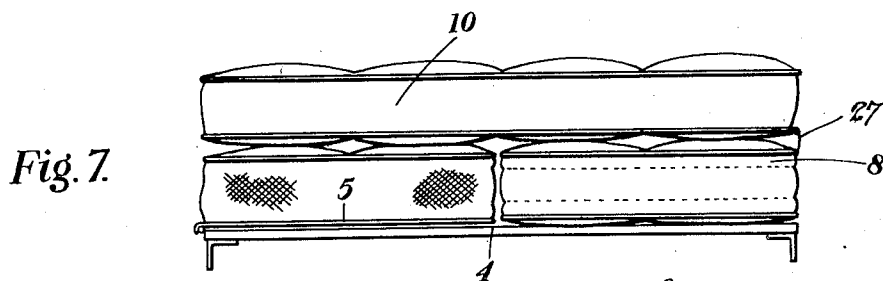
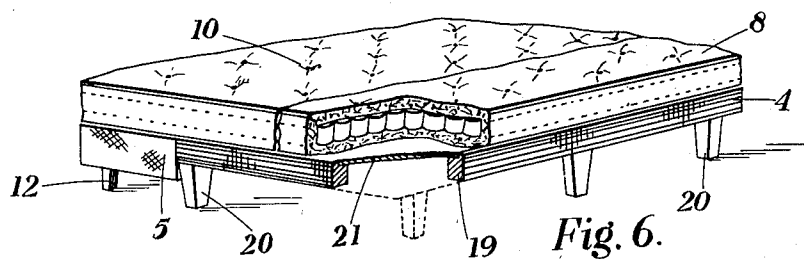
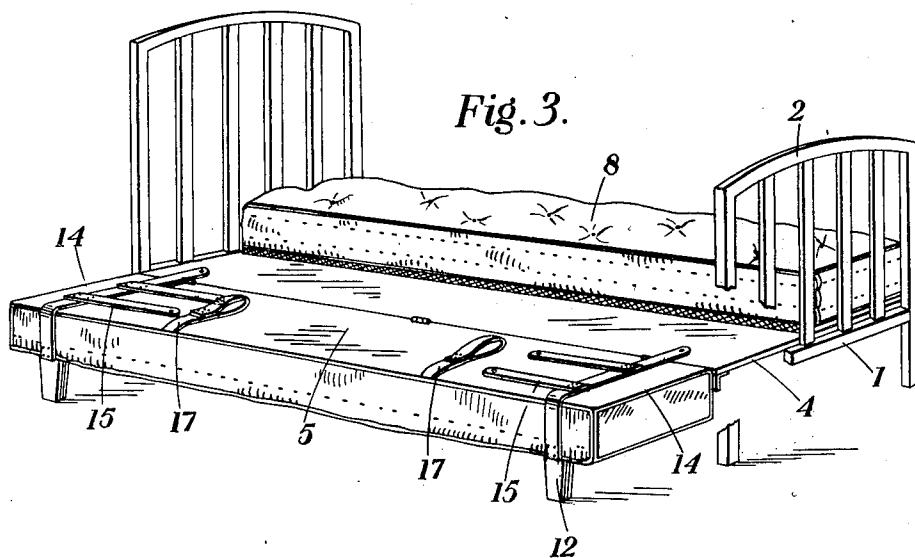
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3 Sheets-Sheet 2



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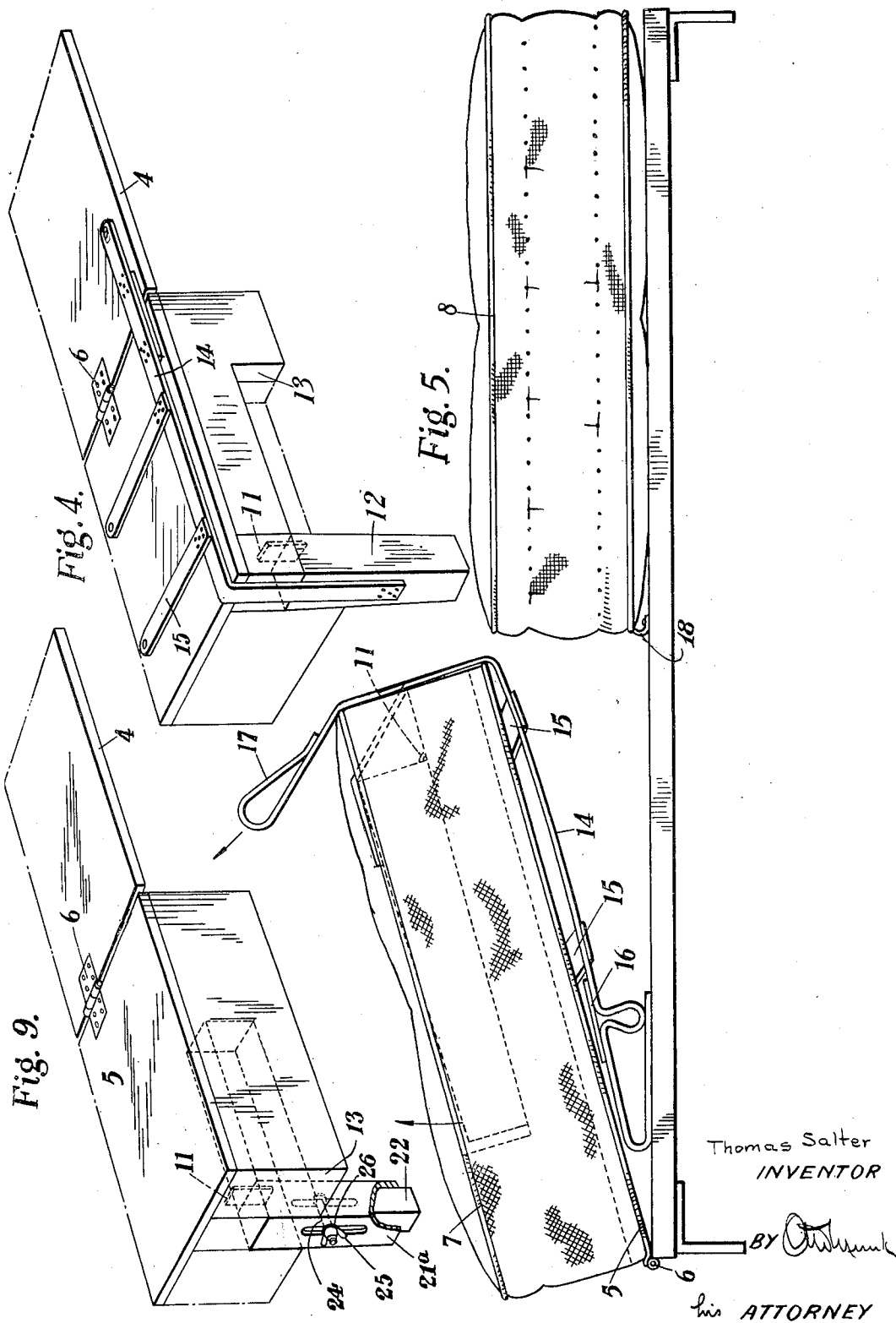
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3 Sheets-Sheet 3



UNITED STATES PATENT OFFICE

1,933,342

ARTICLE OF FURNITURE HAVING EXTENSIBLE UPHOLSTERED SURFACES

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and in Great Britain December 1, 1931

7 Claims. (Cl. 5—352)

This invention concerns a new or improved article of furniture having an extensible upholstered surface and particularly concerns an extensible mattress, especially a spring mattress, and the primary object of this invention is to provide a mattress or spring upholstered seating or like surface which can be extended laterally, and a further object of the invention is to provide a laterally extensible mattress or seating surface of this kind which may be used as part of a laterally extensible bed or in a laterally extensible divan.

In order that the invention may be clearly understood and readily carried into practice, I have appended hereto three sheets of drawings, illustrating the same, wherein:—

Figure 1 is a perspective view of a bed having a mattress or upholstered surface constructed in accordance with this invention, the mattress or upholstered surface being in its folded position,

Figure 2 shows the same bed with the mattress or upholstered surface in the laterally extended position,

Figure 3 shows the same bed in the position illustrated in Figure 2, but with a mattress section removed,

Figure 4 illustrates a detail of a modified mattress or upholstered surface with respect to the location of the legs, and is drawn to an enlarged scale,

Figure 5 is an end elevation, drawn to an enlarged scale, of the mattress or upholstered surface with a section removed,

Figure 6 shows this invention applied to a divan, part of the divan being shown broken away more clearly to illustrate the construction,

Figure 7 is an end elevation of a modified mattress according to this invention,

Figure 8 is an end elevation of the mattress shown in Figure 7, but the parts are here shown in extended position, and

Figure 9 is a perspective view of a modification.

Referring to Figures 1 to 5 of the drawings, 1 is a bedstead having ends 2 and 3, and on the bedstead is mounted a laterally extensible mattress or upholstered surface comprising a base 4 conveniently formed by a sheet of plywood which is of a length and breadth corresponding substantially to the usual length and breadth of a single bed.

To one longitudinal edge of the base 4 is hinged at one of its longitudinal edges a wing 5 equal in length to the base 4, but only half the

width of the latter, this wing being connected to the base 4 by hinges 6.

The wing 5 may occupy a position such as is shown in Figure 1 where the wing lies on top of the base 4, or the wing may be turned into an extended position, such as is illustrated in Figures 2 and 3.

On that side of the wing 5 which is uppermost when the wing is in the folded position shown in Figure 1, is mounted a spring mattress section 7, which is of the same length and breadth as the wing. A similar mattress section 8 is mounted on the base 4 with its outer longitudinal edge coincident with that longitudinal edge of the base opposite to the edge at which the wing 5 is hinged, and when the wing 5 is in the folded position the mattress sections 7 and 8 lie side by side and are complementary and together extend fully across the base 4.

When the wing 5 is turned into the extended position, the mattress section 7 mounted thereon is inverted and the then upper surface of the wing 5 is flush with the upper surface of the base 4, and in this way the rebate or recess 9 normally occupied by the mattress section 7 is extended, as will be clearly seen from Fig. 3.

A further spring mattress section or spring interior overlay 10 is provided, and this section or overlay is twice the width of either of the sections 7 and 8, or in other words is equal in width to the joint width of the sections 7 and 8, and when the wing 5 is in the folded position and the mattress is being used on a single bed the mattress section or overlay 10 is placed above the sections 7 and 8, as shown in Figure 1.

When the bed is to be used as a double bed the wing 5 is turned into the extended position described above, and the extended rabbet, step, or recess 9 formed by the unfolding of the wing is filled by moving the mattress section or overlay 10 thereinto, as is clearly shown in Figure 2, the upper surface of the mattress section or overlay 10 then being substantially flush with the upper surface of the mattress section 8, and these two mattress sections 8 and 10 lying side by side and the combined mattress thus formed extending the full width of the side by side base 4 and wing 5.

To the wing 5 at a short distance from each end thereof and at a suitable distance from the hinged edge of the wing, is attached by a hinge 11 a foldable leg 12 which can fold into a recess 13 provided in the spring mattress section 7. The hinge 11 is mounted on the inner side of the leg 12 so that when the leg is extended its upper

end abuts a part of the wing 5 which forms a stop limiting the movement of the leg in the outward direction.

In order automatically to move the leg into the extended position as the wing 5 is turned into the position shown in Figure 3, each leg is connected by a flexible member or link 14, which may be formed of fabric or other suitable material, to the base 4, and this flexible member is prevented from lateral displacement in an outward direction by further flexible restraining members 15 secured to the members 14 and the wing 5.

In order that the flexible members or links 14 shall begin to extend the legs early in the movement of the wing 5, each flexible member 14 is elastic to a limited degree and incorporates an elastic section 16 (Figure 5), which takes up part of the length of the flexible member 14 when the wing 5 is in the folded position, but does not hinder the wing being extended although it tends to resist the movement of the leg 12 with the latter and so causes the leg to begin to move into the extended position.

When the wing 5 is in the extended position the flexible member 14 is fully extended so that the leg 12 is positively held in its fully extended position.

In order to simplify the moving of the wing 5, it is provided, on that side which is uppermost when the wing is extended, with a pair of loops 17.

The mattress section 8 is conveniently connected to the base at its inner longitudinal lower edge by a fabric or other suitable hinge 18, but the outer longitudinal edge of the mattress section is free and can be raised so that bed-clothes can be tucked thereunder.

Figures 7 and 8 show a modification in which the mattress section 8, instead of being hinged to the base 5 at 18, is hinged at 27 to the mattress section 10 by a fabric hinge. Normally when the mattress is unextended the mattress sections 8 and 10 are folded and superimposed as shown in Figure 7, but when the mattress is extended these mattress sections lie side by side on the same level as shown in Figure 8, the section 10 having been moved laterally and the section 8 having been inverted.

In Figure 6 the invention is illustrated as applied to an extensible divan, and in this case the base 4 consists of a rectangular wooden or metal frame 19 provided with legs 20 and having a boarded upper surface 21, the wing 5 being hinged to this base in a similar manner to that previously described. The arrangement of the mattress sections and other parts of the divan conveniently are very similar to those previously described with reference to the bed illustrated in Figures 1 to 5.

Figure 9 shows a foldable extensible type of leg which may be used in place of the legs 12 or 20. This extensible leg is made in two parts 21^a and 22, the part 21^a being of rectangular hollow or tubular form, and the part 22 being endwise slidable therein.

The outer part 21^a of the leg is provided with a slot through which passes a bolt 24 also passing through the inner part 22 and having a head at one end and a wing nut 25 at the other, and under which wing nut a washer 26 is provided.

By making the leg in this way its height or length is adjustable to suit requirements within given limits, and a mattress having its wing 5 fitted with legs of this kind can be sold for appli-

cation to bedsteads of slightly differing heights which is of course advantageous.

What I claim is:—

1. An article of furniture comprising a supporting base, a wing less in width than the base and hinged to a side edge thereof, a plurality of relatively narrow upholstered sections each less in width than the said base and normally lying side by side to form a continuous upholstered surface one of said sections being carried by said wing member, a further upholstered section of a width equal to the combined width of said relatively narrow sections, and the latter sections and the said further section being normally superimposed and above said base, and said relatively narrow upholstered sections being adjustable relative to one another by manipulation of said wing member to enable said further section to be placed on said base side by side with a relatively narrow section so as to have its upper surface flush with the upper surface of the latter and laterally to extend the upholstered surface.

2. An article of furniture comprising a base, an upholstered section on the upper surface of said base and less in width than the latter, a wing invertibly attached to said base and adapted to be superimposed on the latter or to form a lateral extension thereof, an upholstered section on that side of said wing which is uppermost when the wing is superimposed on the base and adapted, when the wing is in the latter position, to lie side by side with the first-named upholstered section, and a still further upholstered section normally adapted to be superimposed on said other upholstered sections and equal in width to the combined width of these sections but adapted to be moved when the said wing is inverted, to occupy the extended recess so formed and adapted to lie with its upper surface flush with the upper surface of the adjacent section and to serve as a lateral extension of the upholstered section on the said base.

3. An article of furniture comprising a supporting base, an extension wing hinged to one longitudinal edge of said base and adapted to be either superimposed on said base or to act as a lateral extension thereof, foldable legs on said wing adapted to support the latter when it is extended, an upholstered section on and along one side of said base and less in width than the latter, a further upholstered section mounted on that surface of the wing which is uppermost when the wing is superposed on the base, said further upholstered section being complementary to the upholstered section on the base and these two sections when side by side forming an upholstered section equal in width to said base, and an additional upholstered section adapted to fill the recess formed by extending said wing, and to lie in such recess and side by side with the upholstered section on the said base to form a laterally extended upholstered surface.

4. An article of furniture comprising a supporting base, an extension wing hinged to one longitudinal edge of said base and adapted to be either superimposed on said base or to act as a lateral extension thereof, foldable legs on said wing adapted to support the latter when it is extended, means adapted automatically to extend said legs when the wing is moved into its extended position, an upholstered section on and along one side of said base and less in width than the latter, a further upholstered section mounted on that surface of the wing which is uppermost when the wing is superposed on the

base, said further upholstered section being complementary to the section on the base and these two sections when side by side forming an upholstered section equal in width to said base, and
5 a spring interior overlay adapted to fill the recess formed by extending said wing and to lie in such recess and side by side with the upholstered section on the said base to form a laterally extended upholstered surface.

10 5. An article of furniture comprising a supporting base, an extension wing hinged to one longitudinal edge of said base and adapted to be either superimposed on said base or to act as a lateral extension thereof, foldable legs on said
15 wing adapted to support the latter when it is extended, flexible elastic links connected to said legs and to said base and adapted to cause said legs automatically to unfold when the said wing is extended, an upholstered section on and along
20 one side of said base and less in width than the latter, a further upholstered section mounted on that surface of the wing which is uppermost when the wing is superposed on the base, said further upholstered section being complementary
25 to the upholstered section on the base and these two sections when side by side forming an upholstered section equal in width to said base, and a spring interior overlay adapted to fill the recess formed by extending said wing and to lie
30 in such recess and side by side with the upholstered section on the said base to form a laterally extended upholstered surface.

35 6. An article of furniture comprising a supporting base, an extension wing hinged to one longitudinal edge of said base and adapted to be either superimposed on said base or to act as a lateral extension thereof, telescopic and foldable

legs on said wing adapted to support the latter when it is extended, means adapted automatically to extend said legs when the wing is moved into its extended position, an upholstered section on and along one side of said base and less
80 in width than the latter, a further upholstered section mounted on that surface of the wing which is uppermost when the wing is superposed on the base, said further upholstered section being complementary to the upholstered section on
85 the base and these two sections when side by side forming an upholstered section equal in width to said base and a spring interior overlay adapted to fill the recess formed by extending said wing and to lie in such recess and side by
90 side with the upholstered section on the said base to form a laterally extended upholstered surface.

7. A laterally extensible mattress comprising a spring interior main section provided with a
95 longitudinal recess extending inwardly from one longitudinal edge thereof, a subsidiary and complementary spring interior section adapted to fill said recess and hinged at its outer longitudinal
100 edge to said main section, the subsidiary section being movable into an inverted position in which its then uppermost surface is flush with the bottom of said recess and the said subsidiary section forms a lateral extension of the
105 said main section and the said recess is enlarged, a further spring interior section adapted to fill said enlarged recess, legs foldably associated with said subsidiary section, and means adapted
110 automatically to extend said legs when the subsidiary section is moved into an extended position.

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