Sept. 26, 1933. E. F. ZUELKE 1,928,405

COUCH BED

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Fig. 1.

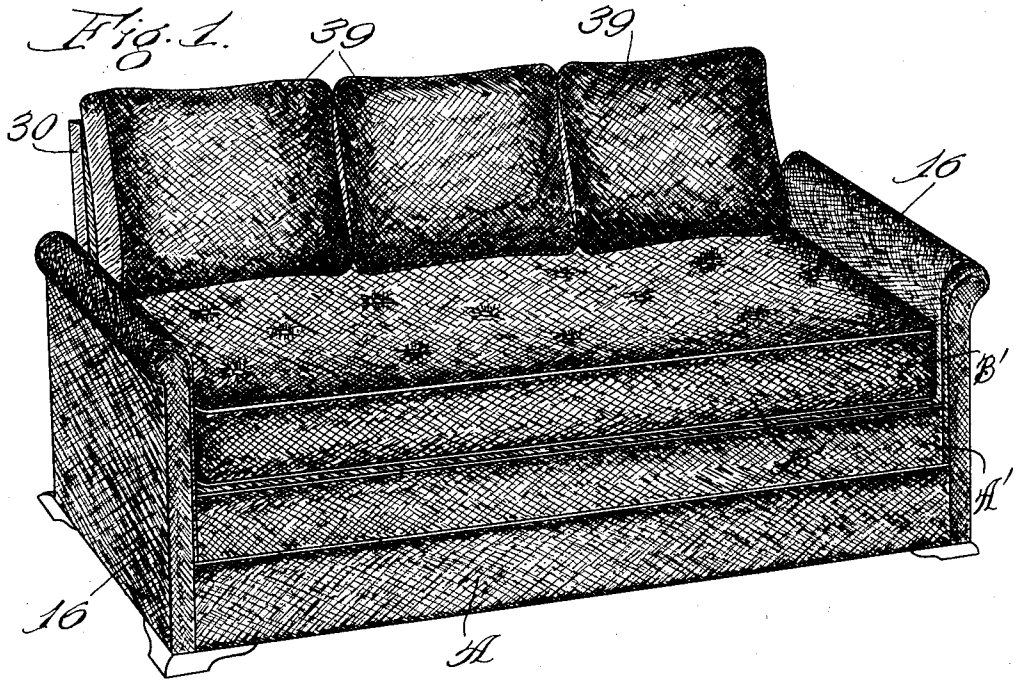


Fig. 2.

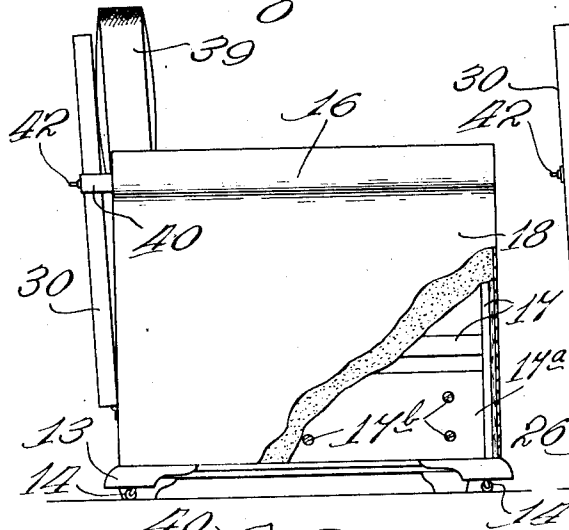


Fig. 3.

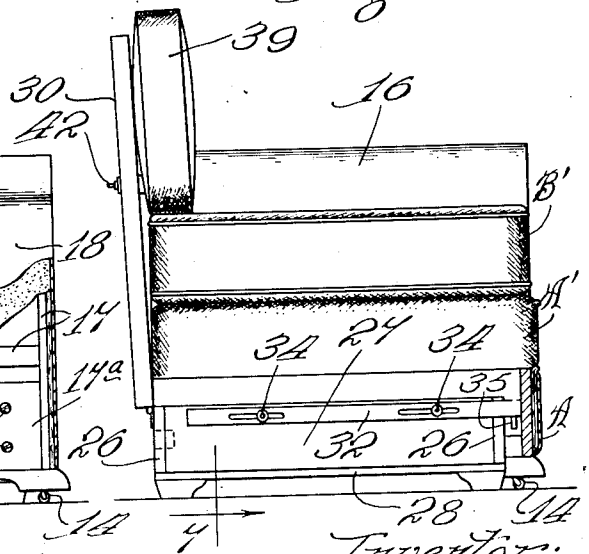
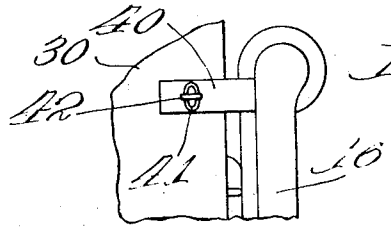


Fig. 4.



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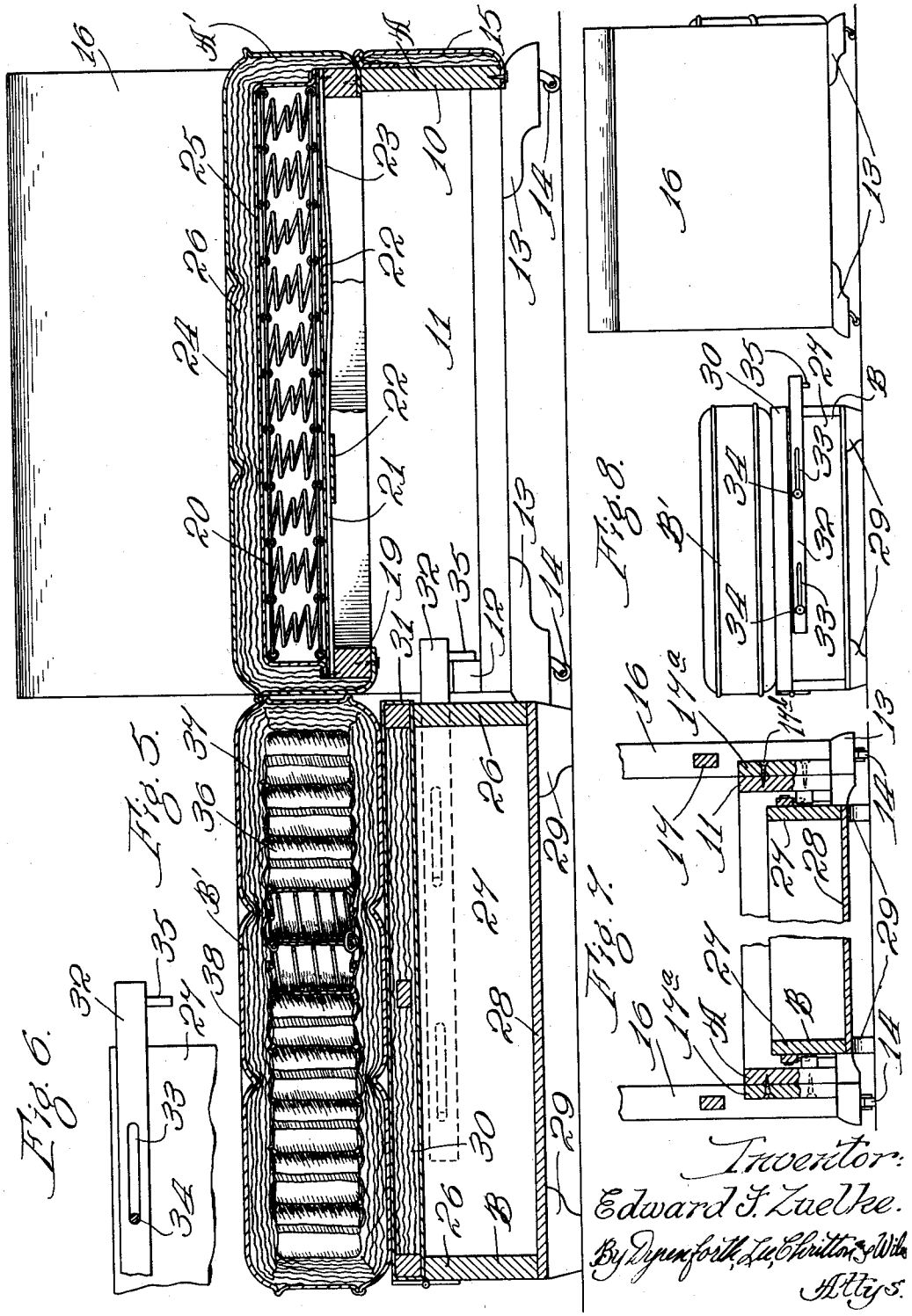


Fig. 5.

Fig. 6.

Fig. 8.

Fig. 7.

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UNITED STATES PATENT OFFICE

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COUCH BED

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Application August 13, 1932. Serial No. 628,736

2 Claims. (Cl. 5—17)

This invention relates to a couch-bed and more particularly to a couch-bed of the convertible type.

A primary object of the invention is to provide an improved couch-bed of simplified and sturdy construction which may be folded to afford a couch or davenport of pleasing and comfortable conformation and which may be readily and with little effort converted into a full size bed. Other specific objects and advantages will appear as the specification proceeds.

The invention is illustrated, in its preferred embodiment, in the drawings, in which—

Fig. 1 is a perspective view of a couch-bed embodying my invention; Fig. 2, a broken end view; Fig. 3, an end view in elevation, the side frame of the couch being removed; Fig. 4, an enlarged broken detail view of means for supporting the hinged back in raised position; Fig. 5, a transverse sectional view of the couch-bed in bed-forming position; Fig. 6, a broken detail view of means for connecting the inner bed to the main couch frame; Fig. 7, a broken sectional view, the section being taken as indicated at line 7 of Fig. 3; and Fig. 8, an end view in elevation of the couch and inner bed members in separated relation.

In the illustration given, A represents the main frame or couch frame; A', the spring cushion or mattress carried thereby; B, the inner bed frame and B', the spring mattress carried thereby when the parts are in bed-forming relation.

The couch frame A is provided with a front frame member 10 and side walls 11. The rear wall of frame A is left open so that the frame may receive therethrough the inner bed frame B. Preferably, the end walls 11 are provided with stop blocks 12 at a point near their rear edges. The stop blocks 12 cooperate with means which will be hereinafter described for releasably securing the inner frame B to the outer frame or couch frame A.

The frame A is shown supported by legs 13 equipped with rollers 14. If desired, the front side 10 of frame A may be covered on its outer face with padded fabric 15 or with other suitable material.

If desired, the couch frame A may be provided at its ends 11 with arm-rests or sides 16. The sides 16 may be of any suitable construction. In the illustration given, the sides are formed of a wooden frame 17 to which is attached a fabric covering 18. At the lower part of the wooden frame is a base-board 17^a which may be attached by means of screws 17^b to the end walls 11 of the frame A.

The spring cushion or spring mattress A' is preferably supported by a rectangular wooden frame 19 which rests upon and is fixedly secured to the three sides of frame A. It will be noted that with this construction, there is provided at the rear of frame A and below the spring structure A' a longitudinal opening adapted to receive the inner bed frame B.

The spring cushion A' may be of any suitable form. In the illustration given, springs 20 are carried by a supporting structure consisting of burlap 21 or the like, reinforced by longitudinal straps 22 and transverse straps 23. A suitable mattress or cushion cover 24 is provided and between the cover 24 and the spring cover 25 is interposed stuffing 26 of any suitable material.

The inner bed frame B' preferably comprises a rectangular box having longitudinal sides 26 and ends 27. The box is also provided with a bottom 28 which rests upon the legs 29. Hinged to the rear side 26 of the box is a lid or top 30. The top 30 is preferably covered with fabric or other suitable material.

Secured to the outer sides of the ends 27 are stop slides 32 which are provided with longitudinal slots 33. The pins 34 which are secured to the ends 27 engage the slots 33 and serve to adjustably attach the slides to the frame B. Each of the slides 32 is provided at its forward end with a depending projection or lug 35. As shown more clearly in Figs. 6 and 7, the depending lug or pin 35 is adapted to engage the stop block 12 which is secured to the ends 11 of frame A, thus serving to prevent detachment of frame B from frame A.

The spring mattress B' may be of any suitable construction. In the illustration given, a series of covered springs 36 are enclosed within padding 37 which in turn is enclosed within the mattress cover 38.

If desired, pillows 39 may be employed as illustrated in Fig. 1.

In order to hold the back or top 30 in the position illustrated in Figs. 1, 2, 3 and 4, the sides 16 are provided at their rear with straps 40 of leather or other suitable material, the straps being provided near their ends with relatively large oblong eyelets 41. Secured to the rear side of the cover or back 30 is a rotatable thumb-lock 42 having a thin flat body adapted to extend through the opening 41 and to be turned at right angles thereto to form a locking connection.

In the operation of the couch-bed, the parts

may be arranged, as shown in Fig. 1, to form a couch or davenport. In this position, the spring mattress or spring cushion B' is placed upon the spring structure A'. The cover 30 for the frame B is swung back upon its hinge and the inner frame B is enclosed by frame A. At the same time, the back or top 30 is secured in the position illustrated in Figs. 1 to 4 so as to form a back for the cushions 39. The back 30 is releasably held in position by means of the engagement of the straps 40 with the thumb-locks 42. If desired, the cover 30 may be folded inwardly upon the frame B to provide a backless or studio couch.

Assuming the parts to be as shown in Figs. 1, 2, 3 and 4, if it is desired to convert the davenport or couch into a bed, the operation may be as follows. The straps 40 are released from the cover 30. The frame A is drawn forward carrying with it the spring structures A' and B'. The inner frame B, not being rigidly attached to frame A, will remain stationary as frame A is advanced. When the frame A has advanced far enough to substantially clear the inner frame B, the slides 32 will have reached their outermost position and the pins or lugs 35 will engage the stop blocks 12 (see Fig. 5). The lid or cover 30 may then be dropped to a horizontal position so as to rest upon the rectangular box. The spring cushion or mattress B' is then transferred from its position on the spring structure A' to a position upon the cover 30. In this relation, the mattress A' and B' form a full size bed. In returning the parts to the couch or davenport position shown in Figs. 1 to 4, the operation is reversed. The cushion B' is placed upon the spring structure A'. The cover 30 is raised to vertical position and the frame A is pushed rearwardly so as to enclose the stationary inner frame B. Finally, the cover or back 30 is releasably locked in position by securing the straps 40 to the thumb-locks 42.

The apparatus is simple and sturdy in construction, permitting ready assembly for forming a couch or davenport and ready unfolding for forming a full size bed. The frame B, in addition to forming a support for the spring cushion B', provides a chest for the storing of blankets, covers, etc. The sliding link mechanism for preventing detachment of the inner and outer frames also affords the additional advantage of permitting quick separation of these parts when separation is desired. For example, the forward ends of slides 32 may be raised to permit the pins 35 to clear the blocks 12. When this is done, the frame A may be rolled forward to separate the parts, as illustrated in Fig. 8.

While particular interlocking means have been described for releasably securing the back to the ends of the couch, it will be understood that any suitable means may be employed for this purpose.

The foregoing detailed description has been given for clearness of understanding only, and no unnecessary limitations should be understood therefrom, but the appended claims should be construed as broadly as permissible, in view of the prior art.

I claim:

1. A convertible studio-couch, comprising an inner stationary chest, a cover hingedly connected to the rear of the chest, a couch frame having its sides free and arm-rests at its ends, said frame being equipped with rollers and having an open rear side adapted to receive said chest, the hinged cover of said chest being adapted to be raised along one free side of said couch to provide a back therefor, and cooperating means on said arm-rests and said cover for releasably securing said cover in raised position.

2. A convertible studio-couch, comprising a stationary chest equipped with a cover hingedly connected to the rear wall of the chest, a couch frame having its sides free but equipped at its ends with arm-rests, said couch having its rear wall cut away to receive said chest, said chest cover being adapted to be raised to a position adjacent one free side of the couch frame to provide a back therefor, and interlocking supports secured to said cover and said arm-rests to releasably support said cover in back-forming position.

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