

C. S. HOIT.

BED.

APPLICATION FILED DEC. 23, 1915.

1,270,414.

Patented June 25, 1918.

3 SHEETS—SHEET 1.

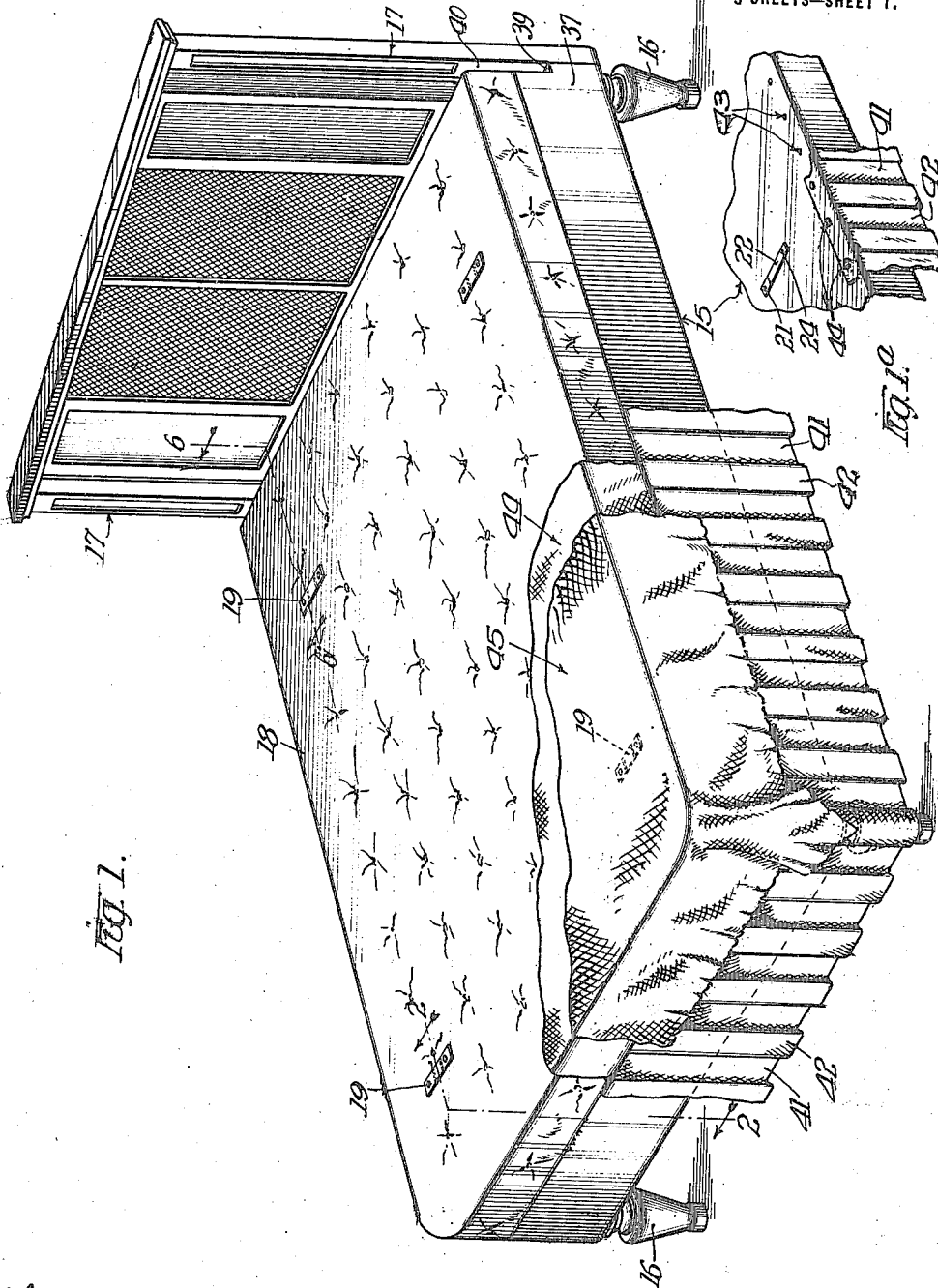


Fig. 1.

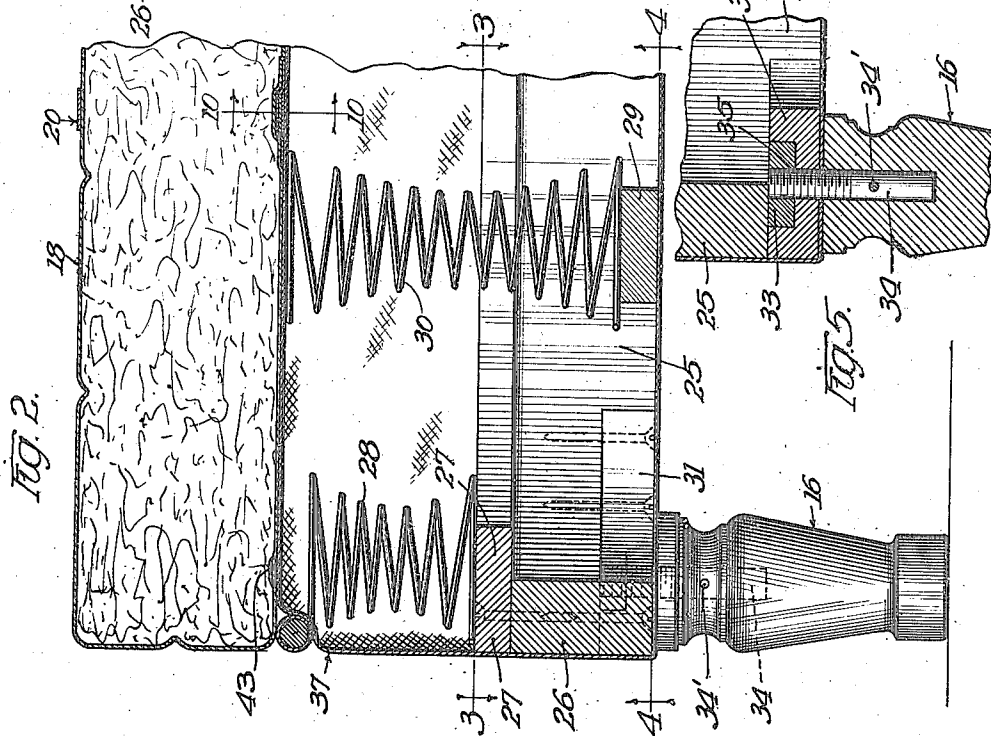
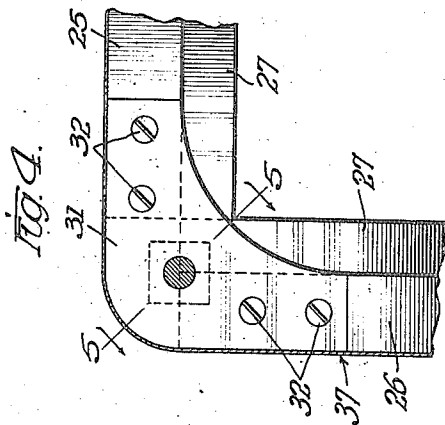
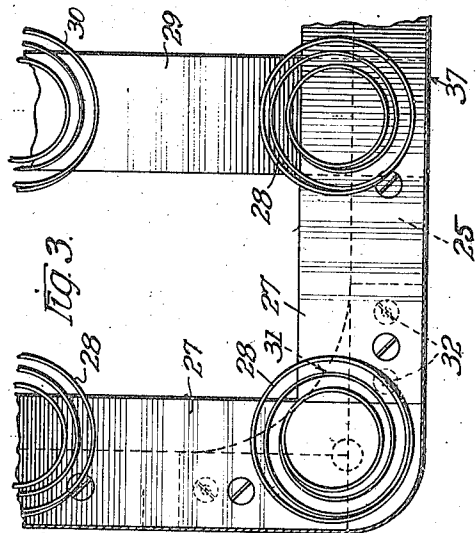
Fig. 1.

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3 SHEETS—SHEET 2.



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3 SHEETS—SHEET 3.

Fig. 6.

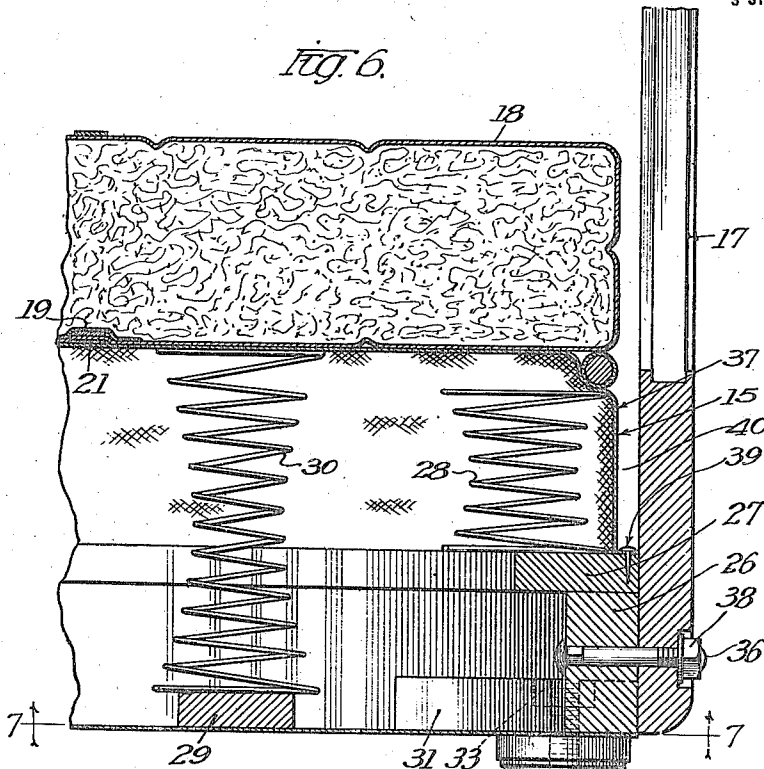


Fig. 8.

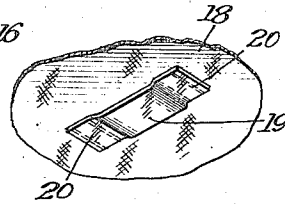


Fig. 7.

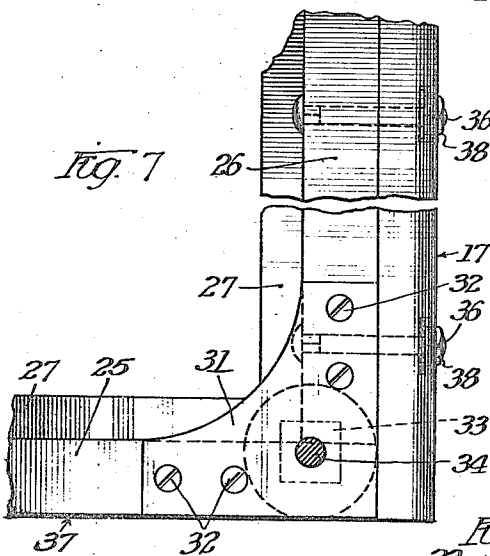


Fig. 9.

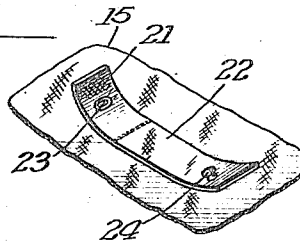
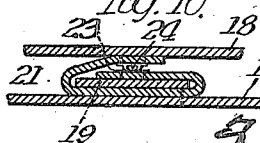


Fig. 10.



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UNITED STATES PATENT OFFICE.

CHARLES S. HOIT, OF CHICAGO, ILLINOIS.

BED.

1,270,414.

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Application filed December 23, 1915. Serial No. 68,317.

To all whom it may concern:

Be it known that I, CHARLES S. HOIT, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Beds, of which the following is a specification.

My invention relates to improvements in beds.

One of the objects of my invention is to provide a bed wherein the usual separable side-rails and foot-board, or panel are dispensed with, thereby to cheapen the cost of the bed structure; to enhance the usefulness of the bed; to improve its appearance and to increase its capacity and space efficiency.

Another and more specific object of my invention is to constitute the bed frame of the frame structure comprising an integral part of the ordinary box-mattress and to secure separable legs on each corner of said box-mattress and fastening means on the upper surface of said box-mattress for holding the superimposed hair-mattress in place, in the absence of the ordinary bed frame.

Other and further objects of my invention will become readily apparent, to persons skilled in the art, from a consideration of the following description when taken in conjunction with the drawings, wherein—

Figure 1 is an isometric perspective view of my improved bed, showing parts broken away.

Fig. 1^a is a fragment of the upper surface of the box mattress showing valance attaching means.

Fig. 2 is a section taken on line 2—2 of Fig. 1.

Fig. 3 is a section taken on line 3—3 of Fig. 2.

Fig. 4 is a section taken on line 4—4 of Fig. 2.

Fig. 5 is a section taken on line 5—5 of Fig. 4.

Fig. 6 is a section taken on line 6—6 of Fig. 1.

Fig. 7 is a section taken on line 7—7 of Fig. 6.

Fig. 8 is a fabric clip, four of which are sewed to the hair-mattress on each side for engagement with a tongue, attached to the box-mattress, shown in Fig. 9.

Fig. 9 is a tongue, four of which are secured to the top of the box-mattress for engagement with the aforesaid clips.

Fig. 10 is a section taken on line 10—10 of Fig. 2, showing the tongue-and-clip engagement.

In all the views the same reference characters are employed to indicate similar parts.

15 is the ordinary box-mattress structure having a leg 16 detachably secured at each of its corners, and having a head-board or panel 17, secured to one end of the box-mattress. 18 is a superimposed hair-mattress, of substantially the same width as and a little shorter than the box-mattress 15. The hair, or separable mattress 18, is provided with four clips 19, each comprising a strip, preferably of fabric, sewed to said hair-mattress, as at 20, by preferably two or more rows of stitching at each end, leaving some fullness between said ends for engagement of the tongue 21 which is in the same manner secured to the upper surface of the box-mattress 15, as at 22. The tongue 21 is provided, at one end, with an eyelet 23 and at the other end with a stud 24. There are four clips 19 on each side of the mattress 18, as shown in Fig. 1. When the hair-mattress 18 is placed on the box-mattress 15 the tongues and clips are in substantially the same respective vertical planes and each of the tongues 21 is slipped into the respective clip 19 and the stud 24 is then pressed into the eye 23, as clearly shown in Fig. 10, for the purpose of holding the hair-mattress in proper place on the box-mattress, in the absence of the usual bed frame, to prevent the former from slipping from the latter. The frame of the box-mattress 15 is comprised of two parallel interior side rails 25 and end rails 26. Overlying each of the rails, 25 and 26, is a somewhat wider plate 27, to support longitudinal marginal rows 28 of helical springs. Transversely extending slats 29 are secured to the respective side rails 25 to support other series of rows of longer helical springs 30, of which there may be a number of rows as usual in the construction of box-mattresses. Mortised into the bottom of the ends of the meeting side rails 25 and end rails 26, at each corner there is an angle plate 31, secured in place, as by means of screws 32. Before the angle plate 31 is placed in position, if it is to be made of wood, it is mortised to inclose a screw threaded angular nut 33 which is held in place and prevented from leaving the mortised recess by the overlying end and side

rails 25 and 26. A screw threaded stud 34 is let into the upper end of each of the legs 16. The screw threaded portion 35 of the stud, projecting beyond the ends of the legs, is adapted to pass through the angle plate 31 and into the nut 33 to hold the leg in place. If the angle plate 31 is to be made of cast iron, or the like, it may be directly screw threaded and the presence of the separate nut 35 will, of course, not be necessary. The stud 34 is held in place to prevent it from turning in the leg 16 by means of a pin 34'. The head-board, or panel 17, is bolted to the head-rail 26 of the box-mattress structure 15 by means of bolts 36, of which there may be any suitable or desired number. When the panel or head-board 17 is removed, by removing the nuts 38 from the bolts 36, the nuts and washers may be replaced upon the bolts to prevent them from passing back through the head-rail 26, leaving them readily accessible for use when it is desired to again replace the head board.

The fabric 37 entirely enveloping or covering the box-mattress structure 15 is preferably tacked around the lower edges of the end and side rails 25 and 26, except at the end at which the head board is to be attached, in which place the fabric 37 is tacked to the outer edge of the plate 27, by use of tacks 39, leaving a space 40 between the headboard and the fabric 37. This space is convenient for receiving the ends of the bed clothes that pass over the mattress 18 and between the box-mattress structure and the head board 17, so as to make the bed appear tidy when properly made up.

A valance 41, preferably plaited, as at 42, is detachably secured around the upper edge of the box-mattress by means of glove fasteners, or eyelets, and studs 43 and 44, the eyelets being secured to the mattress and the studs to the removable curtain or valance. This valance, or curtain, extends to near the bottom of the bed so as to screen from view the raw covering 37 of the box-mattress structure. The ordinary bed clothing, consisting of sheets, blankets, etc., 44 are preferably tucked under the mattress 18 and between the mattress 18 and the box-mattress structure 15, the fastening clips 19 being placed sufficiently far back from the edges of the mattress 18 to permit this operation. The bed covering 44 is then overlaid with

a spread 45, which preferably extends below the upper edge of the valance.

When the legs are removed from the box-mattress, by unscrewing, and the head-board or panel is disconnected from the end of the mattress structure, the bed is then in convenient form for transportation or storage and occupies minimum space. It is convenient to be moved, being readily taken from one room to another, as often necessitated in hotels, hospitals, or the like, and is very easily and quickly set up. It is easy to be set up in place, is especially sanitary and presents the maximum area or surface for the purpose for which said bed is intended.

While I have herein shown a single embodiment of my invention for the purpose of clear disclosure it is manifest that many changes may be made in the general form, construction and disposition of parts within the scope of the appended claims.

Having described my invention, what I claim is:

1. In a bed, the combination of a box mattress, comprising an upper yielding part and a rectangular box frame therebelow extended at one end beyond the yielding part, said yielding part adapted to receive an upholstered part equal in length to the yielding part; a detachable head board attachable to the said lower part, thus leaving a deep space between said head board and upholstered portion and a part of the box mattress to accommodate bed clothing and detachable legs secured to the lower box portion of said mattress.

2. A bed comprising a box-mattress structure having an interior supporting frame; a leg secured at each corner under the frame and a series of mattress-holding devices upon the upper surface of said box-mattress structure spaced inwardly from the marginal edges thereof to hold the superimposed mattress in place on the box-mattress in the absence of the usual bed frame parts projecting above the mattress.

In testimony whereof I hereunto set my hand in the presence of two subscribing witnesses.

CHARLES S. HOIT.

In the presence of—

FORÉE BAIN,
MARY F. ALLEN.