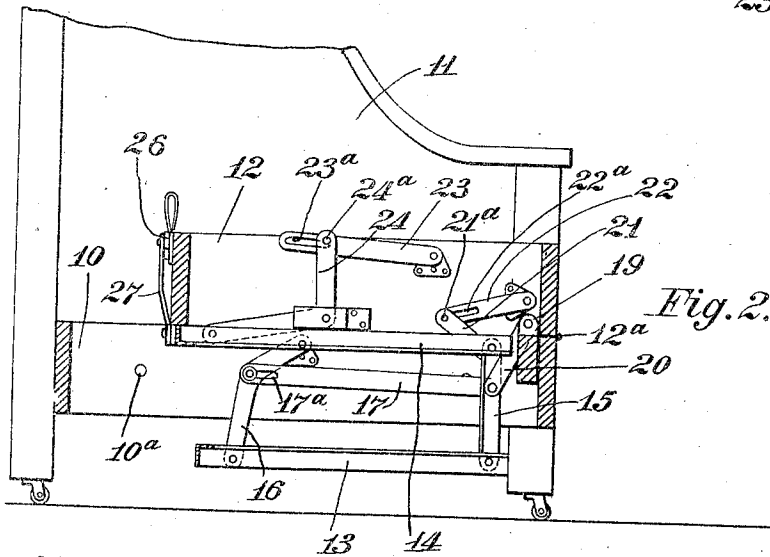
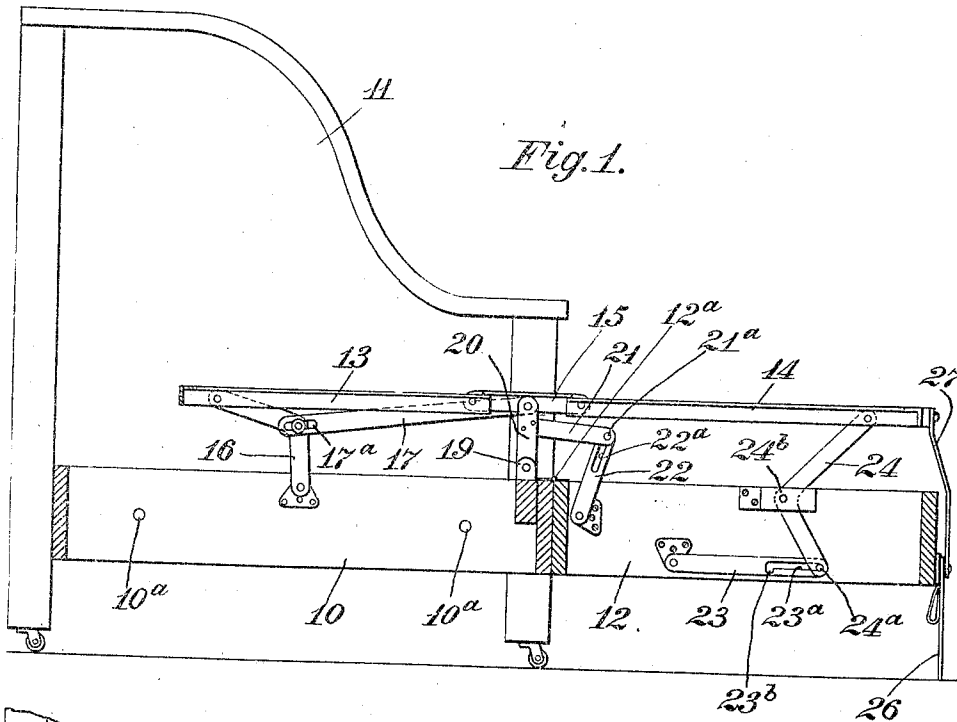


1,058,798.

Patented Apr. 15, 1913.
2 SHEETS—SHEET 1.



Witnesses
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Mayme Foard

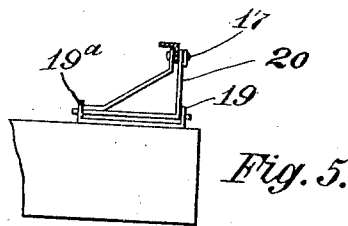
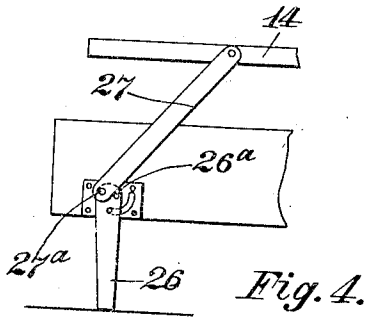
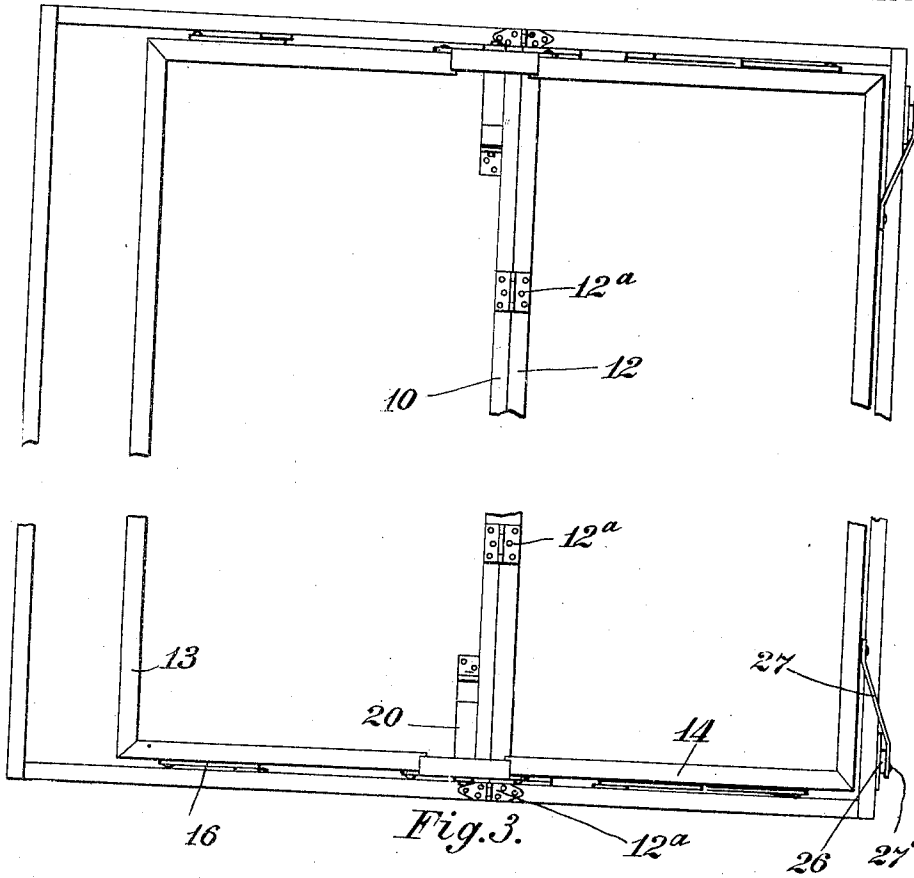
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SOFA OR DAVENPORT BED.
APPLICATION FILED AUG. 3, 1911.

1,058,798.

Patented Apr. 15, 1913.

2 SHEETS-SHEET 2.



Witnesses
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UNITED STATES PATENT OFFICE.

ALONZO G. SHARP, OF COLUMBUS, OHIO, ASSIGNOR TO THE E. M. HULSE COMPANY, OF COLUMBUS, OHIO, A CORPORATION OF OHIO.

SOFA OR DAVENPORT BED.

1,058,798.

Specification of Letters Patent.

Patented Apr. 15, 1913.

Application filed August 3, 1911. Serial No. 642,191.

To all whom it may concern:

Be it known that I, ALONZO G. SHARP, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Sofa or Davenport Beds, of which the following is a specification.

The object of this invention is to provide an improved construction of sofa or davenport bed in which the parts are of simple, economical and durable construction and easy operation.

The invention is embodied in the construction and combination of parts set forth in the following description and pointed out in the appended claims.

In the accompanying drawing forming part hereof Figure 1 is a view of the bed in side elevation with parts in section showing the mechanism at one end of the bed, the latter being in open or extended position. Fig. 2 is a similar view with the bed folded or closed. Fig. 3 is a top plan view broken out showing the bed and the frame in which it is directly mounted. Fig. 4 is a detail showing the drop leg for the outer bed section. Fig. 5 is a detail in side view of the rocking frame or standard.

In the views 10 designates a rectangular box or frame that is bolted at 10^a to usual ornamental end pieces 11. The forward part of this box constitutes the front rail of the structure or the base of the front rail.

The character 12 designates the seat frame which is also of rectangular form and suitably upholstered at one side. The seat frame 12 is hinged to the forward edge of the box 10 as indicated at 12^a.

The spring bed frame is foldable and comprises an inner section 13, an outer section 14 and a middle section 15 hinged to the sections 13 and 14. The spring bed frame is mounted or supported on the box frame 10, and on the under side of the seat frame 12, so that by manipulating the seat frame only the spring bed can be opened and closed, the bed being normally housed beneath the seat when the latter is closed.

The mechanism for automatically effecting the opening and closing of the spring bed frame is the same at each end of the structure so that a description of one will suffice for both. Said mechanism as it ap-

pears at one end of the structure will now be described.

Connecting the inner bed section 13 with the box frame 10 is a bent link 16 and connecting said bent link with the middle section 15 of the bed is a bar 17 slotted at 17^a where it connects with said bent link. The bent link supports the inner bed section at the proper level at the rear end when the bed is opened.

Journalled in ears 19 and 19^a, at each forward corner of the box frame 10 or on the front rail is a rocking frame or standard 20 that is hinged at its upper end to the middle or connecting section 15 of the bed. This rocking standard 20 has rigidly secured to it an arm 21 and connecting the arm 21 with the seat frame 12 is a link 22 hinged to the seat frame. The link 22 where it receives the pin 21^a of the arm 21 is slotted as seen at 22^a, and the middle section 15 is wholly supported by the standards 20 when the bed is turned to open position as best depicted in Fig. 1. Connecting the outer bed section 14 and the seat frame is a bent lever 24 hinged on a pin at 24^b to the seat frame and having in its end a pin 24^a that extends through the slot 23^a of an arm 23 hinged to said seat frame. The slot 23^a is provided with a notch 23^b at its inner end (as viewed in Fig. 1) forming a shoulder to engage the pin 24^a in the operation of the bed. When the seat is raised the outer bed section falls toward the under side of the seat thereby throwing the drop legs up alongside the edge of the seat frame. In turning the seat back the arm 23 drops down causing the engagement of the pin 24^a with the shoulder of the notch 23^b (see Fig. 2) thereby locking the bed section 14 and seat frame close together for the opening operation. When the bed is opened the edge of the seat is supported at each end by means of a leg like that shown at 26. This leg is pivoted to a plate at 26^a and is automatically operated by a link 27 that is hinged to the front bar of the bed section 14 and connected hingedly and eccentrically with the leg at 27^a. When the bed is opened the separation of the bed section 14 and the seat frame causes the leg 26 to assume an erect position, and conversely when the bed section 14 closes against the seat frame as before described the leg is thrown up alongside of said frame.

The operation is very simple. To open the bed the seat is taken at its free edge by the usual strap, as appears in Figs. 1 and 2, and turned out to the position indicated in Fig.

1. To close the bed the seat is turned inward from the position shown in Fig. 1 until it assumes the position shown in Fig. 2. In these manipulations the parts automatically assume substantially the positions illustrated as the opened and closed positions respectively in Figs. 1 and 2. The rocking standards 20 permit the extension of the spring bed frame with great ease and permit of ample outward projection of the bed when opened. The room provided for the mattress and bed clothing between the bed frame sections is ample and such articles in reasonable bulk do not interfere with the operation of the mechanism.

In this construction it will be observed that all the operating mechanism is mounted upon the box frame 10 and seat 12, hence the bed can be shipped unmounted and is easily assembled by the retail dealer. When so mounted it makes a rigid structure.

Of course, the back may be provided with a suitable upholstered frame as well understood by those skilled in the art.

What I claim is:

1. In a sofa or davenport bed the combination with a box or frame and a seat frame hinged to the forward portion thereof, of a folding spring bed frame including an inner, a middle and an outer section, rocking standards journaled directly on the box or frame and connected with said middle section, a bent link for supporting the inner bed section, a bent lever for supporting the outer bed section, means connected with the seat for operating the said standards when the seat is turned outward, and means for controlling the movement of the said bent lever.

2. In a sofa or davenport bed the combination with a box or frame and a seat frame hinged to the forward portion thereof, of a

folding spring bed frame including an inner, a middle and an outer section, rocking standards journaled directly on the box or frame and connected with said middle section, a bent link for supporting the inner bed section, bars connecting said bent link with the middle section, a bent lever for supporting the outer bed section, means connected with the seat for operating the said standards when the seat is turned outward, means for controlling the movement of the said bent lever and a leg-operating link connected with the outer bed section and the seat frame.

3. In a sofa or davenport bed the combination with a box or frame and a seat frame hinged to the forward portion thereof, of a folding spring bed frame including an inner, a middle, and an outer section, rocking standards journaled on the box or frame and connected with said middle section, a bent link for supporting the inner bed section, a bent lever for supporting the outer bed section, and a swinging arm on the seat frame having a stop to limit the movement of the last named bent lever, substantially as described.

4. In a sofa or davenport bed the combination with a box or frame and a seat frame hinged to the forward portion thereof, of a folding spring bed frame including an inner, a middle, and an outer section, rocking standards for supporting said middle section, means for supporting the inner bed section, a bent lever connected with the seat frame and outer bed section for supporting the latter and means to cause the said section to close on the seat frame when the bed is to be closed and means to hold the said section so closed until the seat is turned from closed to open position, substantially as described.

ALONZO G. SHARP.

Witnesses:

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J. G. HULSE.