April 19, 1927. 1,625,437

E. A. VELDE

BED DAVENPORT

Filed Sept. 10, 1924 2 Sheets-Sheet 1

Fig. 1.

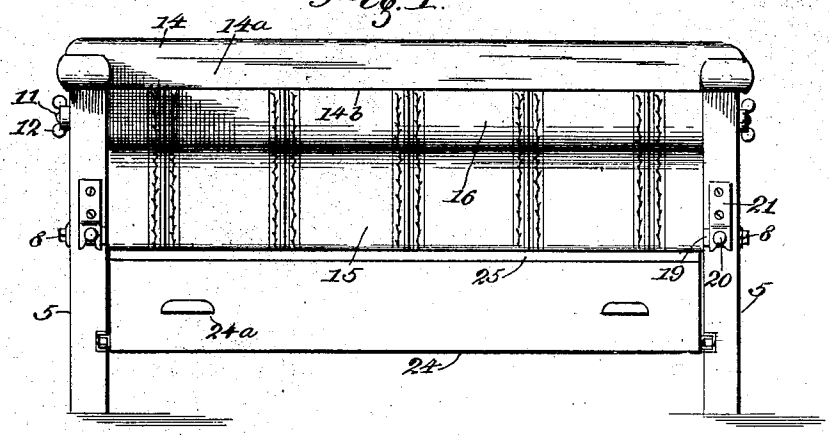
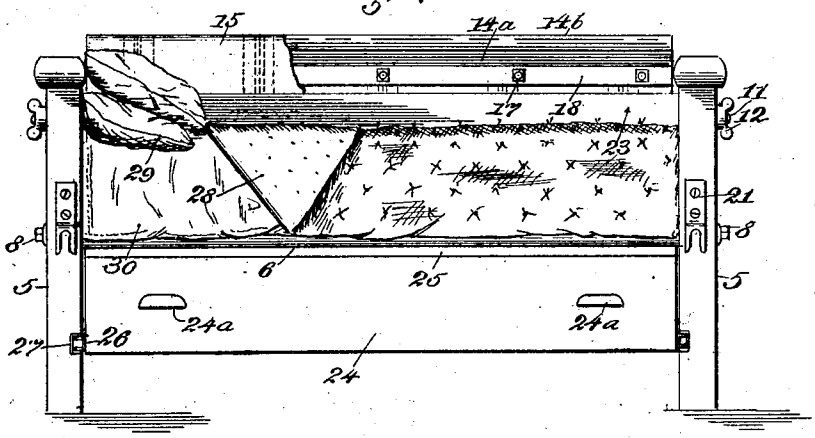


Fig. 2.



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Fig. 3.

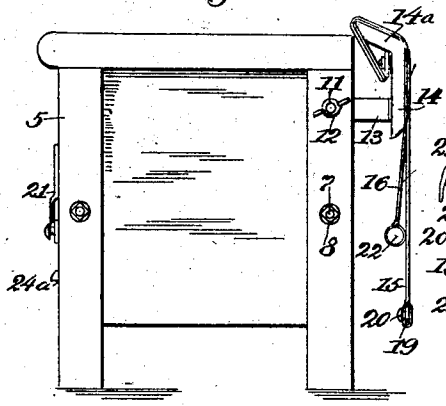


Fig. 4.

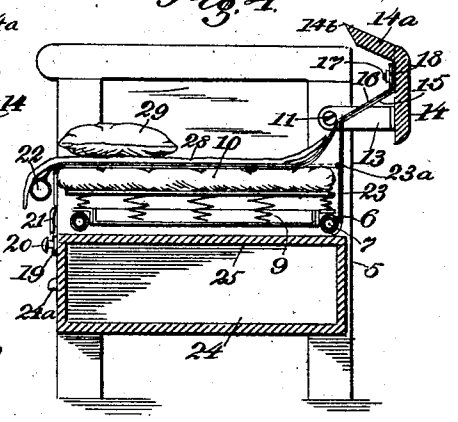


Fig. 5.

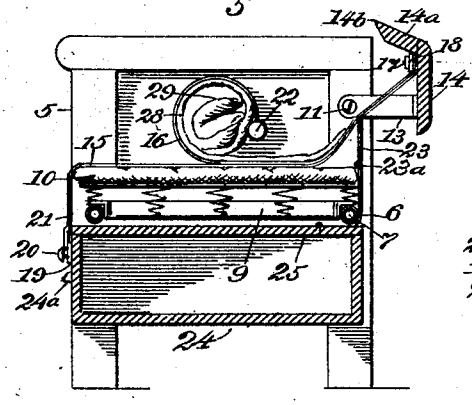
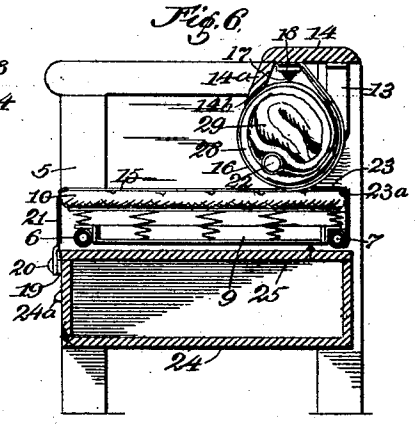


Fig. 6.



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UNITED STATES PATENT OFFICE.

ERNEST A. VELDE, OF CEDAR RAPIDS, IOWA.

BED DAVENPORT.

Application filed September 10, 1924. Serial No. 736,923.

This invention relates to that class of household furniture which by day serves as a seat or lounge for one or more persons, and may be converted into a bed for use at night.

The object of the invention is to produce an improved bed davenport adapted for easy and comfortable sitting when disposed as a sofa, and readily convertible into a comfortable bed, all the bedding being contained in the sofa.

A special object of the invention is to provide for easy and quick changing of the material covering the seat and back of the sofa when soiled, or when for any reason it is desired to make the change.

A further object is to provide a cedar chest, in combination with the sofa, easily accessible, and adapted for protection of the contents against moths and dust.

Other objects and advantages will appear in the specifications following, in which the device is fully described.

In the accompanying drawing, forming a part of this specification, Fig. 1 is a front view of the device embodying the invention, as in sofa or davenport form.

Fig. 2 is a similar view of the same, arranged as a bed.

Fig. 3 is a right end elevation of the bed.

Fig. 4 is a transverse sectional view, showing the disposition of the bedding preliminary to rolling.

Fig. 5 shows the same partially rolled.

Fig. 6 shows in sectional detail the completed roll and normal position of the back, the sofa position being restored, as in Fig. 1.

The framework of the device is shown in a very simple, but practical form, comprising in the main a pair of ends 5 connected by longitudinal bars 6. In practice these bars are preferably tubular to admit longitudinal rods 7 passing through the end-frames, and binding them firmly against the ends of the tubes by means of nuts 8. On these tubes, which for convenience may be called side-bars (front and back) is mounted a bed-spring 9, of a familiar type, shown conventionally. The bed-spring carries a mattress 10, extending from end to end and side to side of the structure. To each end-frame is pivoted by a bolt 11, provided with a suitable handnut 12, a bracket 13 attached to a headboard 14, which in normal position lies horizontally on and spanning the end-frames at the rear. Secured to this headboard at an angle is its apron 14^a, which partially encloses the roll of bedding when in normal position, as shown in Fig. 6. In order that this apron may fit neatly on said roll its lower edge is thinned at 14^b, as shown.

The covers for the seat, 15, and back, 16, are here shown as simple, rectangular sheets of fabric secured by bolts 17 and a clamping bar 18 to the headboard. The longer and lower sheet has a long flat bar 19 set in a hem at the free edge. The sheets are of the length of the sofa inside, but this bar extends at each end, and is provided with a button or stud 20 at each end to engage a slotted plate 21 attached to the front post of each end-frame, the plates being offset to admit the bar from below. In the corresponding hem of the shorter, upper cover is set a straight pole or rod 22, preferably of wood, so as to be both light and stiff, as on this rod largely depends the straightness and smoothness of the roll, to be described presently.

To the rear side-bar is attached a flap 23, preferably of sheet metal, extending the length of the inside of the sofa, and hinged at 23^a so as to be turned down flat on the mattress for protection when the sofa is in use, but turnable to an upright position when the bed is used.

Between the end-frames, and below the bed-spring is mounted a cedar chest 24, provided with a suitable lid 25 and pulls 24^a. The ends of the chest are provided with guide-rails 26 to run in channels 27 (preferably steel) set in the legs of the end-frames. This forms a convenient receptacle for articles of apparel, and the like, which need to be protected from dust, and more particularly, from moths.

From a sofa or davenport the device is converted into a bed, as follows:

The clamping nuts 12 being loosened, the headboard is tipped back, as shown in Figs. 3, 4 and 5. This action slackens the stress on both the seat and back covers, and the slack in the former permits it to be unhooked from the slotted plates above referred to. The rolled up bedding is then unrolled, removed from the cover sheets, and they are thrown back over the headboard out of the way. The bed is then made in the usual way, and is ready for use.

To shift from a bed to a davenport the action is of course reversed. The seat cover

is drawn forward to a position to be caught by the slotted hook-plates, and the back cover laid out flat over it. On this is placed the bedding, blanket or quilt 28, sheets 30, and pillows 29, set end to end near the front. Sofa pillows might be included, as the length of space is great enough to receive them, as well as the bed pillows shown. The bedding is then rolled partially, followed by placing over it the outer edge of the back cover, with its straightening rod. The whole is then rolled to the back of the mattress, the flap 23 being folded down on the mattress, and the roll being held with one hand, the other draws forward the headboard to the position shown in Fig. 6. This brings a strain on the cover fabric, drawing the back cover snugly and smoothly about the roll, and the seat fabric smoothly over the mattress, with the marginal bar engaging the slotted hook-plates. The clamping nuts are then tightened, and the device is ready for use as a davenport.

When the covers become soiled, or for any other reason it is desired to remove them, this may be done in a few moments by loosening the nuts and detaching the clamp-bar 18.

It is to be noted that the rolled up bedding, with its finishing outer cover makes a neat and cushioned rest for the back. This roll is of such a bulk as to occupy a considerable space at the back side of the mattress, thus narrowing the seating space, which in many bed davenports is too wide for comfort. With this construction it is practicable to make a bed wide enough for two small people from a davenport having a normal seating space from front to back.

A further advantage in the construction is found in the fact that the part of the structure which serves as a receptacle for the bedding, moves entirely out of the way for the making up and use of the bed.

The article, as will be seen, is readily "knocked down" for convenient and inexpensive shipment, and may be assembled and erected in a few minutes, at its final destination.

Having thus described my invention, I claim:

1. A bed-davenport, comprising a pair of end-frames, a pair of side-bars connecting said frames, a cushioning bed or seat element, a headboard adapted to partially enclose the bedding, brackets connecting the headboard pivotally to the end frames, and a flexible sheet attached to said headboard, to enclose the rolled bedding, and held in place by a forwardly disposed portion of said headboard.

2. A bed-davenport, comprising a pair of end-frames, connecting front and rear bars therefore, a cushioned seat element mounted thereon, a headboard adapted to partially enclose the rolled-up bedding, end brackets therefor pivotally connecting it with the end-frames, and a wrapping sheet attached to the headboard, and provided at its opposite side with a stiffening rod, whereby the bedding may be rolled in the wrapping sheet toward the rear, and the headboard turned to normal position to hold the roll in position.

3. A bed-davenport, comprising with its cushioned seat, a pair of end-frames, front and rear connecting bars, a headboard provided with an angled, roll-holding apron forming a part of the back when in normal position, brackets connecting the headboard pivotally with the end-frames, and a wrapping sheet with a straight and stiff outer edge, attached by its opposite edge to the headboard, whereby the bedding may be rolled in the wrapper toward the rear, and held thereby the headboard when turned forward.

4. A bed-davenport, comprising a pair of end-frames, front and rear connecting bars, an elastic and cushioned seat element mounted thereon, a headboard adapted to partially enclose a roll of bedding, and pivotally hung on brackets connecting with the end-frames, a wrapping sheet attached by one side to the headboard, with a stiffening rod at its opposite edge, and means for securing the headboard in position.

5. A bed-davenport, comprising a pair of end-frames connected by front and rear side-bars, an elastic seat element mounted on said bars, a swinging headboard adapted to partially enclose a roll of bedding, a seat cover attached at the rear to the headboard and attachable in front to the frame, and a superimposed wrapping sheet attached at the rear to the headboard, and adapted to enclose the rolled bedding.

6. A bed-davenport, comprising end-frames and connecting front and rear side-bars, a seat element thereon, a swinging headboard adapted to partially enclose a roll of bedding, a seat-cover attached at the rear to the headboard, with a stiffening bar at the opposite side, and means on the frame for detachably holding said bar against the stretch of the cover as the headboard is swung to normal position.

7. A bed-davenport, comprising a main frame, a seat element thereon, a swinging headboard adapted to partially enclose a roll of bedding, a seat cover attached to the headboard at the rear, a laterally extending stiffening bar at the front edge of said cover, and provided with studs, and slotted hook-plates at the front of the end-frames to retain said bar.

8. A bed davenport comprising a main frame, a seat element mounted thereon, and a flap and a sectional flap comprising a lower vertical part extending behind the

seat lengthwise of the back, and an upper part hinged to the vertical part and adapted to fold forwardly, the two parts adapted to protect the seat at and near the back side.

9. In a bed-davenport having a main frame and seat element mounted thereon, a swinging headboard pivotally attached to the frame at each end, seat and back covering sheets, a clamping bar, and bolts through the headboard, sheets and bar.

In testimony whereof I affix my signature.

ERNEST A. VELDE.