No. 896,277. PATENTED AUG. 18, 1908.

W. B. DE WITT.

FOLDING BED.

APPLICATION FILED JAN. 10, 1908.

3 SHEETS—SHEET 1.

Fig. 1.

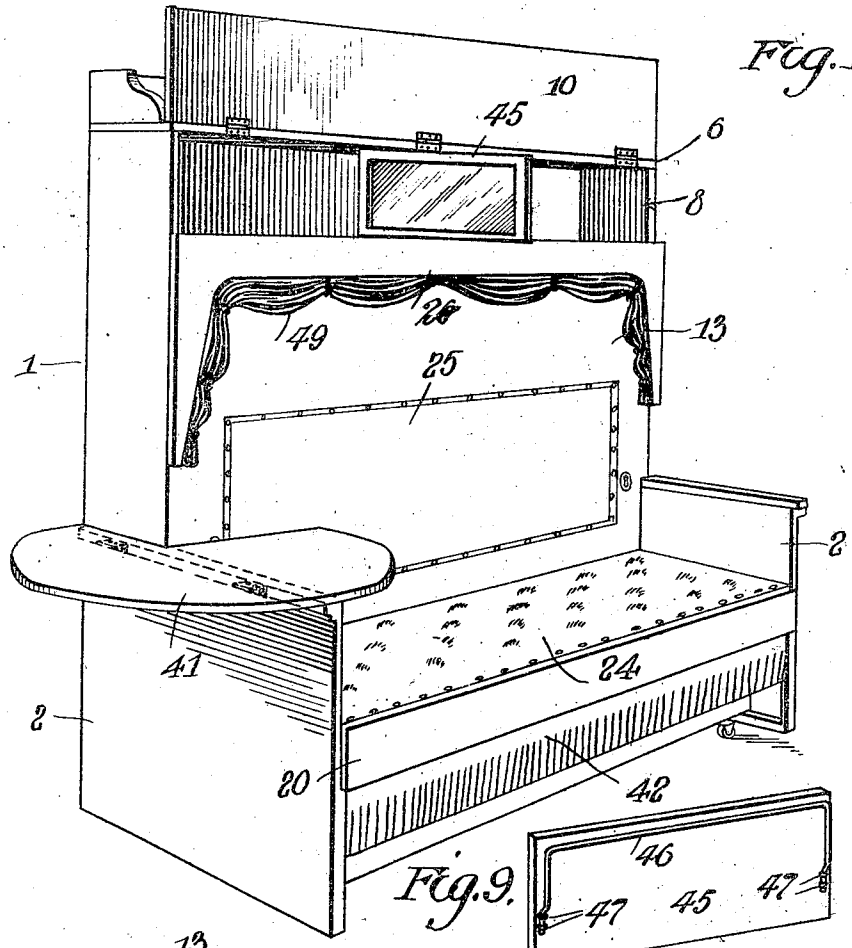


Fig. 4.

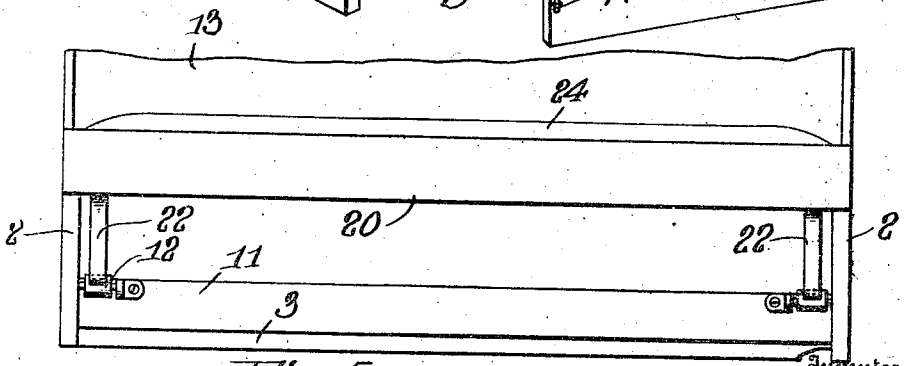


Fig. 5.

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3 SHEETS—SHEET 2.

Fig. 2.

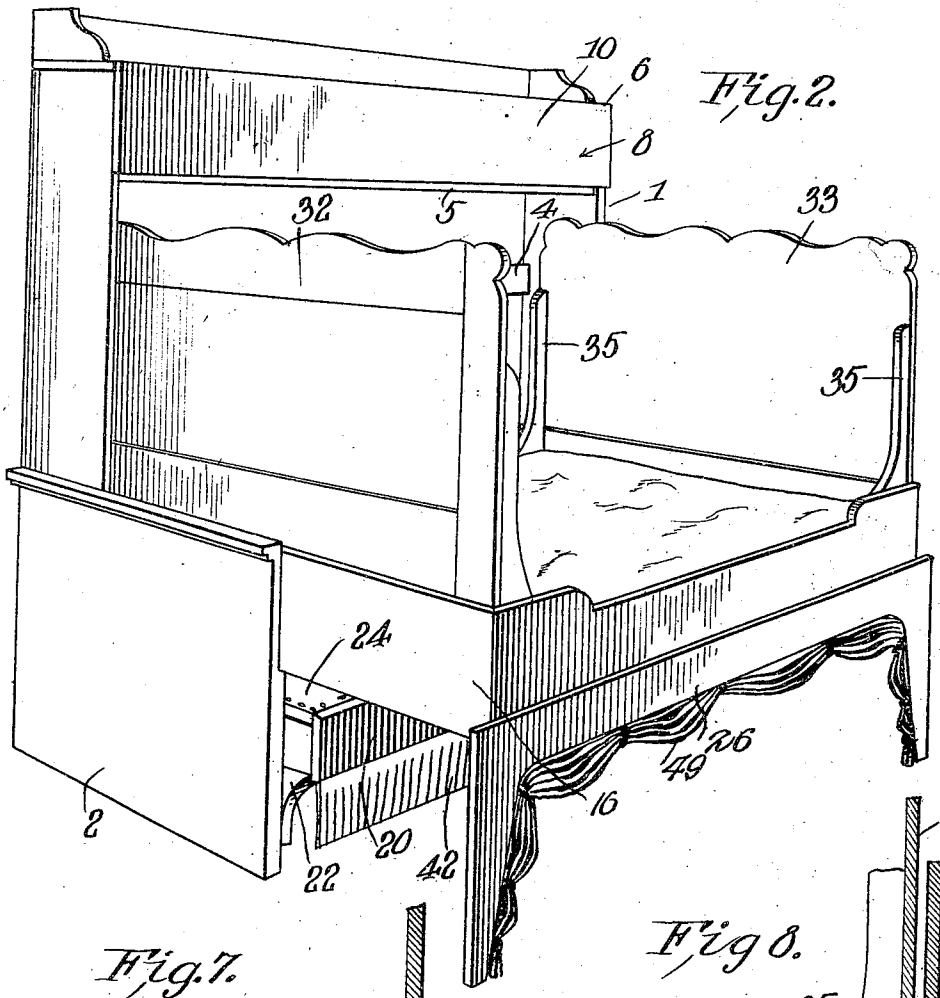


Fig. 7.

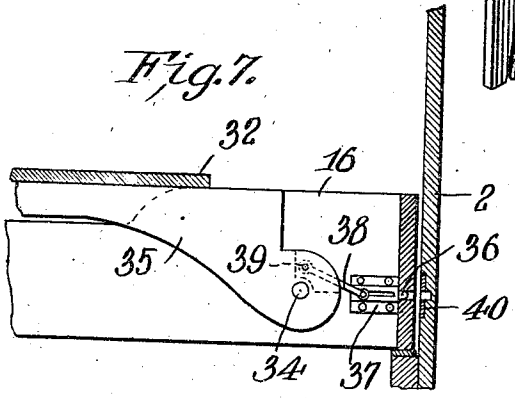
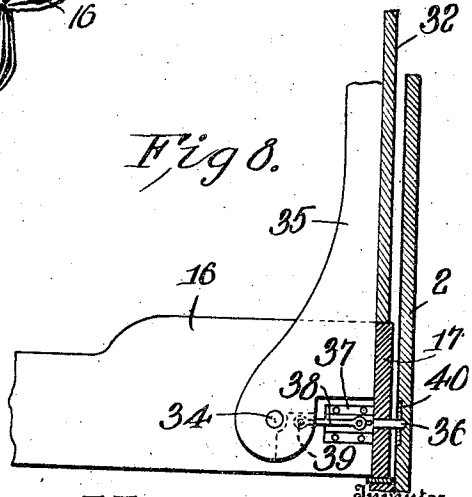


Fig 8.



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3 SHEETS—SHEET 3.

Fig. 3.

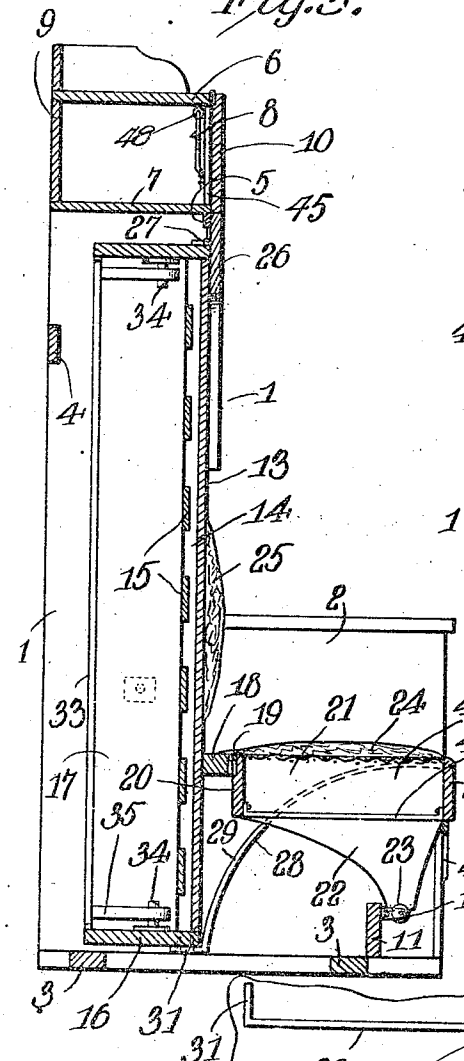


Fig. 4.

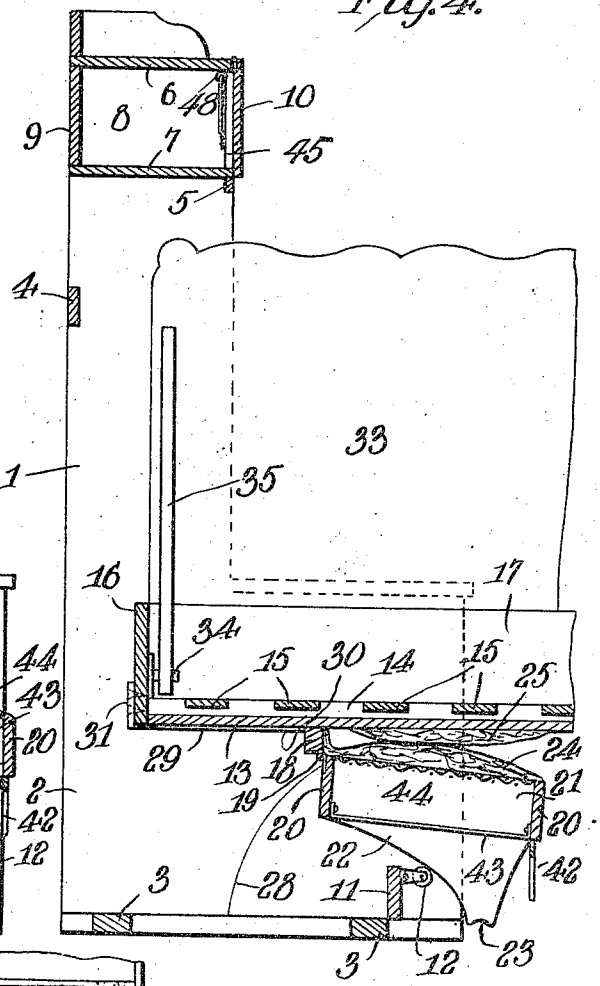
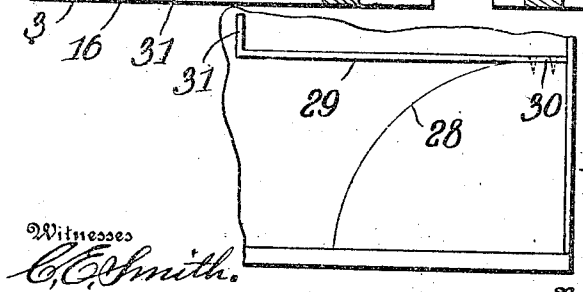


Fig. 6.



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UNITED STATES PATENT OFFICE.

WALTER B. DE WITT, OF JACKSONVILLE, FLORIDA.

FOLDING BED.

No. 896,277. Specification of Letters Patent. Patented Aug. 18, 1908.

Application filed January 10, 1908. Serial No. 410,177.

To all whom it may concern:

Be it known that I, WALTER B. DE WITT, a citizen of the United States of America, residing at Jacksonville, in the county of Duval and State of Florida, have invented new and useful Improvements in Folding Beds, of which the following is a specification.

This invention relates to folding beds, the object being the production of a combination or convertible article of furniture, adapted under one adjustment to form an artistic and ornamental settee or couch and under another adjustment to form a practical and comfortable bed, the whole being constructed and combined in such manner as to enable the several parts thereof to be readily folded with ease and despatch.

With the above general object in view, the invention consists in the novel construction, combination and arrangement of parts herein fully described, illustrated and claimed.

In the accompanying drawings:—Figure 1 is a perspective view of the folding bed adjusted to form a settee or couch. Fig. 2 is a view of the same adjusted to form a bed. Fig. 3 is a vertical transverse section through Fig. 1. Fig. 4 is a similar section through Fig. 2. Fig. 5 is a front elevation of the lower portion of the couch, showing the manner of supporting the seat frame. Fig. 6 is a detail inside elevation of one end of the bed, showing one of the supporting segments. Figs. 7 and 8 are detail vertical sections, showing the manner of folding the end boards of the bed and locking the bed frame to a stationary part of the frame. Fig. 9 is a rear perspective view of the mirror.

The cabinet part or stationary portion of the frame of the folding bed comprises the side uprights 1 and forwardly projecting extensions or ends 2, the tops of which constitute the arms rests at opposite ends of the couch or settee, the said parts being connected by bottom cross bars 3, a connecting bar 4 at the back, and another combined connecting bar and stop 5 at the front of the sides 1 and near the top thereof. The sides are further connected by the top and bottom boards 6 and 7 of a storage compartment 8 which is also provided with a back 9 and a hinged front door or cover 10 giving access to the compartment 8 which may be used for the storage of linen or other articles used in connection with the bed. The top board 6 also forms a shelf for books and other articles. Another connecting bar 11 extends between the projecting extensions or ends 2 and forms and carries supporting rollers 12 which uphold the said frame in a manner which will hereinafter appear.

The bed frame comprises a bottom panel 13, longitudinal frame bars 14, cross slats 15, side rails 16 and end rails 17. The bed frame is adapted to fold in the horizontal position shown in Fig. 4 to the vertical position shown in Fig. 3 where it lies between and is included within the frame of the sides 1 of the cabinet.

The bed is further provided with a cleat 18 extending lengthwise thereof and having hinged thereto at 19 a seat frame comprising the side rails 20 and end rails 21. The said frame is provided at or near the opposite ends with seat supporting legs 22, the lower extremities of which are notched as shown at 23 adapting them to rest upon and engage the supporting rollers 12 when the bed is folded as shown in Fig. 3. In this way the seat frame is effectively supported when used as such.

24 designates the seat cushion and 25 a back cushion which is secured to the under side of the bed bottom 13, the latter forming the back of the seat when the bed is folded. The outer side of the bed frame is upheld when the device is used as a bed by means of a support 26 which is hinged at 27 to the bed frame and adapted to fold from the position shown in Fig. 2 to the position shown in Figs. 1 and 3, giving an ornamental finish to the article as illustrated in Fig. 1. On the inner sides of the extensions 2 of the stationary frame are supporting segments 28 against which bear flexible straps 29 preferably of metal, connected at one end as shown at 30 to the upper outer corners of the segments and connected at their opposite ends as shown at 31 to the inner side of the bed frame as shown in Figs. 3 and 4. The straps 29 tie the bed frame to the stationary frame and hold the same in proper relation to each other as the bed frame is folded upward and downward as will be readily understood by reference to Figs. 3 and 4.

32 and 33 designate the head and foot boards of the bed, or as they will be termed, the end boards, each of said end boards being jointed to the bed frame by mounting the same on hinge pins 34 projecting inward from the side rails 16 of the bed frame as best shown in Fig. 4. In order to accomplish this, brackets 35 are secured to the

bottom portions of the end boards 32 and 33 which brackets are formed with bearing openings or hinge pins 34 as shown in Figs. 7 and 8. In order to lock the bed frame to the stationary frame when the device is being used as a bed, bolts 36 are provided at the inner corners of the bed frame when in a horizontal position, each of said bolts being mounted to slide in a suitable casing 37 secured to the side rail 16 and said bolt is connected by means of an operating link 38 to the bracket 35 at the point 39. The bolt 36 moves through a hole in the end of the rail 17 and engages a keeper 40 secured to the inner face of the adjacent end of the stationary frame or cabinet as shown in Figs. 7 and 8, said bolt being thrown into engagement with the keeper and by swinging the adjacent end board from a horizontal to a vertical position. If desired, the article may be provided with a hinged and folding table leaf 41 mounted on the arm rest of one of the ends or extensions 2 as shown in Fig. 1.

42 designates trimming or fringe extending along the front of the seat frame and projecting down far enough to conceal the working parts of the articles.

43 designates straps extending across the bottom of the seat frame to form a compartment or storage space 44 in which the bed clothes or other material may be placed.

To set the article in position for use as a bed, or in other words, adjust the article from the position shown in Fig. 1 to the position shown in Fig. 2, the forward edge of the seat frame is raised and drawn forward until the notched lower ends of the legs 2 move out of engagement with the supporting rollers 12. The bed frame is then lowered while being held by the flexible straps 29 until the cushion 25 rests upon the cushion 24 when the bed finds an efficient support on the tops of the segments 28. The end boards 32 and 33 are then lifted to their vertical positions, whereupon the locking bolts 36 are moved into engagement with their keepers and the bed frame is thus locked relatively to the stationary frame or cabinet. To restore the bed to its folded position and adapt the article for use as a settee or couch, the operation just hereinabove described is reversed. In pushing the bed frame back to its complete folded position, the supporting legs 22 ride upward over the supporting rollers 12 until the notches 23 drop into engagement with said rollers, the rollers thus acting to hold both the seat and the bed securely in the position illustrated in Figs. 1 and 3.

45 designates a mirror which is provided with a bell-shaped holder 46 consisting of a wire or rod extending lengthwise of the back of the mirror and having its ends offset inwardly and secured to the mirror frame as shown at 47. The bell-shaped holder 46 is held by a screw-eye 48 which is inserted in the under side of the top 6 of the cabinet, the mirror being thus supported in place inside of the plane of the hinged front or top 10. By sliding the holder 46 through the eye 47, the mirror may be adjusted to any desired angle, as indicated in Fig. 1 and arranged either vertically or horizontally, the vertical arrangement being effected by sliding the holder 46 through the eye 48 until the eye 48 occupies one of the lateral end portions of the holder 46 as will be readily understood.

49 designates suitable ornamental drapery or a carved representation thereof to give a convenient and ornamental appearance to the article as a whole when folded as shown in Fig. 1, the said drapery or representation thereof forming part of the supporting frame 26 of the bed.

I claim:—

1. A folding bed comprising a stationary frame or cabinet, a folding bed frame having a jointed connection therewith, hinged and folding end boards connected with the bed frame, and one or more locking bolts carried by the bed frame, having a linked connection with the end boards, and adapted to be moved by said end boards into and out of engagement with the stationary frame or cabinet.

2. A folding bed comprising a stationary frame or cabinet, a folding bed frame mounted therein, a seat frame having a jointed connection with the bed frame and provided with legs having lock notches, and supporting rollers mounted on the stationary frame and adapted to enter the notches of the supporting legs which have inclines that move in contact with said rollers.

In testimony whereof I affix my signature in presence of two witnesses.

WALTER B. DE WITT.

Witnesses:
WILLIAM KUANER,
SAMUEL W. FOX.