I. L. HADLEY.

BED.

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1,400,952. Patented Dec. 20, 1921.

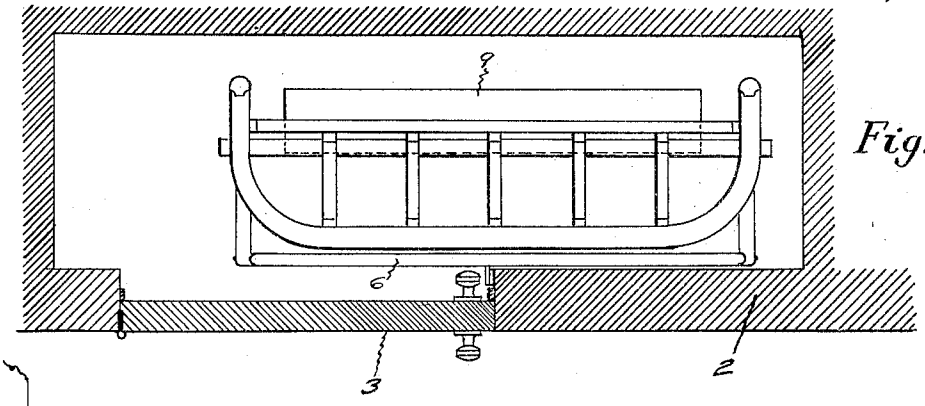


Fig. 1.

Fig. 2.

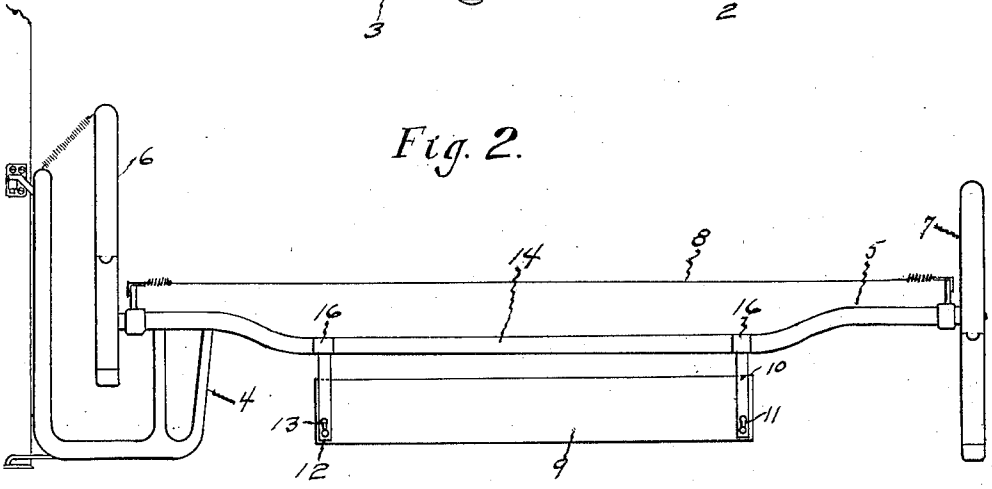


Fig. 5.

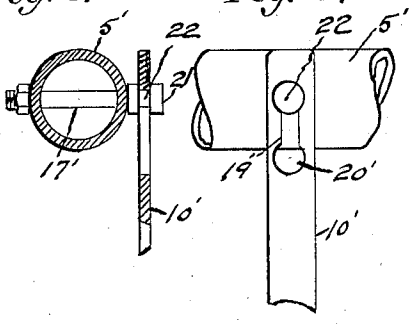


Fig. 6.

Fig. 3.

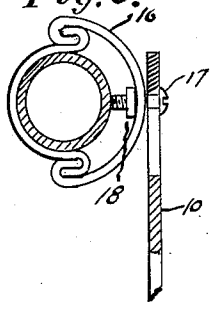
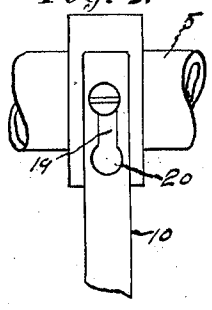


Fig. 4.



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BED.

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To all whom it may concern:

Be it known that I, IDALE L. HADLEY, a citizen of the United States, residing at Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Beds, of which the following is a specification.

This invention relates to beds. While the features of improvement are not restricted to incorporation in an article of the character set forth of any specific nature, they are of peculiar importance however, when associated with a bed of the Murphy type such for instance as shown in Reissue Patent Number 13,428 of June 11, 1912, and to which reference may be had. I have a number of objects in view possibly the most important of them being economy of space. I provide broadly a bed involving a movably mounted frame provided with a bottom generally in the form of some familiar spring, in connection with an article of furniture operatively associated with said bottom. Although as will be inferred I am not restricted in this particular, I ordinarily utilize a bed of Murphy form. The article of furniture may be related with the bed in any proper manner usually being foldably connected with said bottom whether to be of the specific type noted or of any other properly usable. As the bed may be of any suitable character a like observation applies to the article of furniture connected therewith. For example the article of furniture might be a bed wardrobe while on the other hand it might be a dressing table, two of many illustrations. There are many ways in which the article of furniture of whatever form it may take, can be related with the bed. Ordinarily said article of furniture is generally suspended as by being linked to the side-rails of the bed in such manner that when the bed is moved to inoperative relation the article of furniture will be folded desirably automatically between the rails and when the bed is moved to operative or sleeping position the article of furniture will be likewise automatically moved, in both cases usually by its weight, to operative position.

In the drawings accompanying and forming part of the present specification I have shown in detail several of the many different forms of the invention which to enable those skilled in the art to practise the same will be set forth fully in the following description. Obviously I am not restricted to this showing. I may depart therefrom in a number of respects within the scope of the invention defined by the claims following said description.

Referring to said drawings:

Figure 1 is a top plan view of a folding bed involving the invention, the bed being in inoperative or closed position in its closet shown in cross section.

Fig. 2 is a side elevation of the bed in operative relation.

Fig. 3 is a cross section of a side rail and part of link.

Fig. 4 is an elevation as seen from the right in Fig. 3.

Fig. 5 is a view corresponding to Fig. 3, of a modification.

Fig. 6 is a view corresponding to Fig. 4, of said modification.

Like characters refer to like parts throughout the several views which are on different scales.

Although I have made it clear that I am not limited to the incorporation of my invention in any particular bed it is of particular advantage however when used in conjunction with a disappearing or wall bed such as that set forth in the patent hereinbefore identified. In this form of the appliance, the bed when not in use is concealed within a closet 2, furnished with a door 3, the closet or compartment generally but not essentially being formed in the wall of a building. The door jamb has attached to it a bracket 4, which swings in and out of the closet and which when out, sustains the side rails 5, of the bed. With these rails are associated of course, the head 6, and the foot 7. Between the head and the foot is mounted the spring or bottom 8. The bed in fact will be moved into and out of the closet 2, generally precisely in the manner shown in the Letters Patent hereinbefore identified. It will be understood that when the bed is out as shown in Fig. 2, the side rails 5, thereof will be effectually supported by the shiftable bracket or bearing 4, so as to substantially support the bed when it is to be occupied.

There is operatively associated with the bed an article of furniture which may be any one of several kinds. For illustration it is shown as a wardrobe 9, which is intended to contain any desirable article or articles and which may have on the front

or lower side thereof the usual hinged doors which can be opened to obtain access to the interior of the wardrobe.

The wardrobe or equivalent article may be connected with the bed in any proper manner, parallel links as 10, being shown for the purpose. The links of which there is a pair at each side of the article of furniture 9, have at their lower or outer ends, elongated slots 11, to receive studs or projections 12, extending outwardly from opposite sides of the article of furniture near the ends thereof. The studs or projections 12 are generally headed and are initially thrust through enlargements 13, at the upper ends of the slots, the enlargements being of sufficient size to permit the free passage therethrough of the respective studs or projections 12, following which the latter are bottomed in the slots.

The links 10 are operatively connected with the bed and more especially with the side rails 5 thereof by reason of which the article of furniture will be also operatively connected with the bed and the means shown for the purpose will now be set forth. The side rails 5, have between their ends the deflected portions 14, near the ends of which are attached clamps 16, there being as will be clear two clamps on each rail 5. Through the inner sections of the clamps are extended studs 17, practically in the form of screws, the threaded portions carrying nuts 18, which bear against the inner sections of the respective clamps, the tips of the screws engaging the inner sides of the deflected portions of the side rails.

The links 10, near their upper ends have slots 19, the lower ends of which are circularly enlarged as at 20. In fact the slots 19 with their enlargements 20 are exactly similar to the slots 11. In connecting the links 10 with the rails 5, the heads of the screws 17 are first projected through the enlargements 20, after which the links are drawn down so that the upper parallel sides thereof will straddle the shanks of the screws 17 just back of the heads thereof.

In swinging the bed into the closet 2, which it is shown as occupying in Fig 1, the article of furniture 9 automatically is swung into the space between the side rails 5 and virtually against the bottom or spring 8. When the bed is swung out of the closet in which position it is shown as occupying in Fig. 2, the wardrobe 9 will be automatically swung down.

In Figs. 5 and 6 I have shown side rails 5′ which are part of a bed mounted and operating like that hereinbefore described. In fact the only difference in the structure is the way in which the links 10′ are connected with the side rails 5′. These links 10′ have at their upper ends, slots 19′ enlarged at their lower ends as at 20′. The enlargements 20′ are of a diameter sufficient to freely receive the heads 21 of the bolts 17′ which are extended through the rails 5′ and their heads 21 are on the inner sides of the rails, and have annular grooves 22 to closely receive the walls of the respective slots 19′.

It will be clear from the foregoing description taken in connection with the annexed drawings, that the invention involves a receptacle, such as a closet, a door swinging on a vertical pivot to close the receptacle or closet, a bedstead movable into and out of the receptacle or closet, and a piece of furniture so mounted on said bedstead as to be enclosed by said receptacle when the door is closed.

Clearly as I have hereinbefore stated, the article of furniture may be any one of several kinds, and the construction of the bedstead may also vary. I prefer that the article of furniture of whatever nature it may be, be mounted upon the frame of the bed this frame in the construction hereinbefore set forth comprising two side rails. It might be added that the article of furniture which is sustained by the bedstead, is positioned under the bed when the same is opened for use and bears the same relation to the bed when closed in the receptacle or closet.

I should also state that the closet or compartment hereinbefore described is shown as formed in the wall of a building although this may not always be necessary.

What I claim is:

1. The combination of a bedstead to be used in connection with a receptacle having a door swinging on a vertical pivot, for closing or opening the receptacle, the bedstead being mounted in the receptacle and removable therefrom when the door is opened, and an article of furniture so mounted on said bedstead as to be inclosed in the receptacle when the door is shut.

2. The combination of a bedstead to be used in connection with a receptacle having a door swinging on a vertical pivot, for closing or opening the receptacle, the bedstead being mounted in the receptacle and removable therefrom when the door is opened, and an article of furniture mounted on the bedstead to be positioned under the bedstead when the bedstead is in horizontal position out of the receptacle for use, and to occupy the receptacle with the bedstead when the door is shut.

3. The combination of a bedstead to be used in connection with a wall having an opening, the bedstead comprising a part pivoted on a vertical axis adjacent to one side of said opening, and also comprising a frame adapted to swing upward upon a horizontal axis, and an article of furniture so mounted on said frame as to be swung with the frame into said opening.

4. The combination of a bedstead to be associated with a compartment for movement into and out of the compartment, and an article of furniture movably connected with the bedstead and movable into and out of the compartment with the bedstead.

5. The combination of a bedstead to be used in connection with a compartment and mounted for movement into and out of said compartment and to occupy an upright position when in the compartment and a horizontal position when out of the compartment, and an article of furniture movably connected with the bedstead and shiftable into and out of the compartment therewith.

6. The combination of a bedstead to be used in connection with a compartment, mounted for movement into and out of said compartment and to occupy an upright position therein and horizontal position when out of the compartment and an article of furniture connected with the bedstead and movable therewith into and out of the compartment, the article of furniture being automatically movable into two positions when the relation of the bed is changed.

7. The combination of a bed movably mounted to occupy a plurality of positions, and an article of furniture movably connected with the bed and shiftable automatically into an equal number of positions.

8. The combination of a bed movably mounted to occupy an inoperative or an operative position, and an article of furniture connected operatively with the bed.

9. The combination of a bed movably mounted and shiftable into a vertical or a horizontal position, and an article of furniture operatively connected with the bed to assume automatically a corresponding number of positions on the movement of the bed.

In testimony whereof I affix my signature.

IDALE L. HADLEY.

In presence of—

CARL G. HOLM,

HEATH SUTHERLAND.