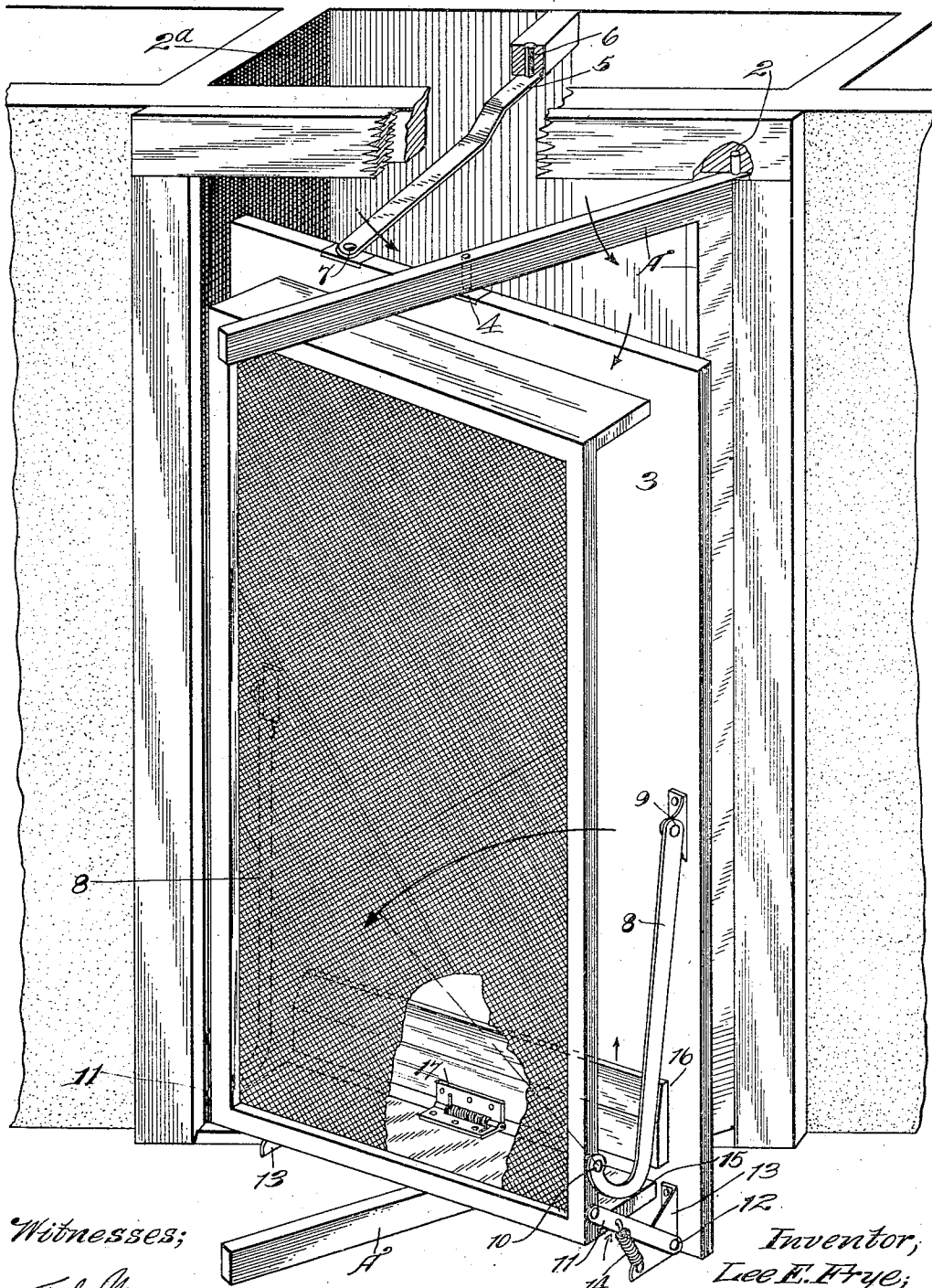


L. E. FRYE.
APARTMENT BED.

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1,005,532.

Patented Oct. 10, 1911.



Witnesses;
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UNITED STATES PATENT OFFICE.

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APARTMENT-BED.

1,005,532.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, LEE E. FRYE, a citizen of the United States, residing in the city and county of San Francisco and State of California, have invented new and useful Improvements in Apartment-Beds, of which the following is a specification.

My invention relates to improvements in what are known as apartment-beds; and it consists in a novel construction of a vertically pivoted swinging frame and bed-carrying panel so disposed as to allow the latter to be automatically turned with relation to the swinging frame during the opening or closing, and in conjunction with this of a means for mounting the bed, and in such a manner that it may be lowered for use, or folded up against the panel.

The invention consists in the combination of parts, and details of construction which will be more fully explained by reference to the accompanying drawings, in which the figure is a perspective of the improved bed.

It is the object of my invention to provide a device which will admit of the opening out and turning of the bed-carrying structure with the least possible movement, and within a very limited space.

As shown in the drawings, A is a yoke or frame which may be in the form of a complete rectangle, if preferred. This frame is pivoted at one of its angles, as shown at 2, in the frame of the closet or depression in which the bed is contained when folded into position. The panel 3 which carries the bed upon one side, and which may carry a mantel, desk or other article of furniture upon the opposite side, is pivoted midway of the horizontal arms of the yoke A, as shown at 4, so that it may turn freely within the space inclosed by the frame A.

5 is a link which has one end pivoted about midway of the width of the door opening, and to the top of the closet frame as shown at 6. The opposite end of this link is pivoted to the panel 3 of the bed-carrying frame, as shown at 7; this pivot point being at one side of the central pivot 4.

The operation of the device will then be as follows: When the panel is closed to present the desk or ornamental device outwardly, the bed will be folded up against the inner side of the panel, and will be inclosed in the closet or receptacle 2^a, which

need be of only sufficient depth to contain the thickness of the bed and its appurtenances, because it is not necessary to have a depth equal to half the width of the bed for the purpose of turning the latter. When it is desired to use the bed, the frame A is swung outwardly about its pivot 2. This carries the bed-carrying panel out into the room, and as the bed and its panel move outwardly, the link 5 will act simultaneously and automatically to turn the panel and the bed until the link 5 has passed into position at right angles with the door opening. The continued turning of the panel will carry the link beyond this position; then by pushing the frame and panel back to its place, the panel will be inverted thus exposing the bed outwardly. It will thus be seen that a minimum depth of closet or receiving space need be provided for the reception of the bed, since the turning of the latter takes place exterior to this space.

The bed is supported by links 8, the upper ends of which are pivoted to the panel as shown at 9; the lower ends of these links are here shown curved in semicircular form, and the outer ends connect with the bed at a short distance from the head as shown at 10. The bed is thus practically suspended from these links, and may be folded up against the panel 3 or unfolded, the links swinging about their pivot points to allow this movement. 11 are another pair of links having the upper ends pivoted at each side of the head of the bed, and nearer thereto than the pivots 10 of the hanging links. The lower ends of these links 11 are pivoted to the bottom of the panel as shown at 12. Brackets 13 extend outwardly from the bottom of the panel to a point exterior to the lower hinge joints of the links 11, and springs 14 connect the ends of these brackets with the upper portion of the links 11. Thus when the bed is let down, and the links 11 move upwardly about their lower fulcrum points, the springs will be extended and tension brought upon them, so that as the weight of the bed increases by reason of its being let down into a horizontal position, the tension of these springs will be increased, and form a counterbalance for the weight of the bed. As the bed is folded up, these springs assist by pulling upon the links 11, and as the bed approaches its vertical folded position, the links 11 will have

turned outwardly about their fixed pivots, and the tension upon the counterbalance springs will be correspondingly relieved.

15 is a fixed head-board, and 16 is an extension thereof having a spring hinge as shown at 17, which normally holds this portion of the head-board against the panel 3 so that it may slide up and down upon the panel as the bed is let down or folded up, and the device is thus provided with a head-board of considerable height, while the hinging of this head-board makes it only necessary to swing the bed upon its suspending links a distance equal to the height of the fixed portion of the head-board.

When the bed has been turned up into its folded position the hinged portion of the head-board will remain resting against the panel, and with the other portion forms a sort of a pocket or receptacle within which the pillows and the bed furniture may be retained, while the bed is turned into the closet and out of use.

Having thus described my invention, what I claim and desire to secure by Letters Patent is—

1. The combination with a closet or receptacle, of a frame having vertical pivots at one edge, a panel having vertical pivots centrally of said frame, and a link having one end pivoted to the panel at one side of the central pivots thereof, and the other end pivoted within the closet or receptacle.

2. The combination with a carrying frame, of a panel adapted to carry an article of furniture, said panel vertically pivoted to the center of said carrying frame; said frame having vertical pivots at one edge thereof, and a co-acting link having one end pivoted to the panel between its edge and central pivot, and the other end having a fixed pivot.

3. Mechanism for mounting an apartment bed, said mechanism including a frame vertically pivoted at one edge, a bed-carrying panel centrally pivoted in said frame, and a co-acting link pivoted to the panel between its edge and center, and having a fixed point of oscillation exterior to the edge of the panel.

4. The combination of a frame vertically

pivoted at one angle, a panel centrally pivoted within the frame, a link connected with the panel having a fixed point of oscillation, and acting to automatically reverse the panel by the swinging of the frame.

5. The combination of a frame pivoted to turn about vertical pivots, a panel pivoted to the frame, and adapted to swing from side to side of said frame, an article of furniture or ornament carried on one side of the panel, and a link having a fixed pivot of oscillation and pivoted to the panel between the center and side edge of the latter for automatically reversing the panel when the frame is oscillated on its pivots.

6. In a reversible wall attachment, the combination of a panel turnable in an opening in the wall, said panel having an article of furniture on one side of it, said panel pivoted centrally at top and bottom upon, and supported by, a pair of arms, which arms are rigidly connected to form a frame which supports the entire weight of the panel, said frame pivoted in said opening, and a link pivoted to the panel and to a fixed support to reverse the panel when swung on said frame as a hinge.

7. The combination with a receptacle, of a vertical panel closure therefor, two arms one at top and bottom supporting the panel so that the latter may turn on vertical pivots, connections between the arms by which the two arms are made to work in unison so as to maintain the axis of oscillation of the panel always in a true vertical, and a reversing link pivoted at one end to the panel between the vertical edge of the latter and the said center of oscillation, the other end of said link having a pivot independent of the door, whereby said link and said arms conjointly are operative automatically to reverse the panel through an arc of 180 degrees when the panel is turned about its vertical pivots.

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

LEE E. FRYE.

Witnesses:

GEO. H. STRONG,

CHARLES A. PENFIELD.