Feb. 11, 1930. F. E. RUKABER ET AL 1,747,028

FOLDING BED

Filed March 5, 1929

Fig. 1.

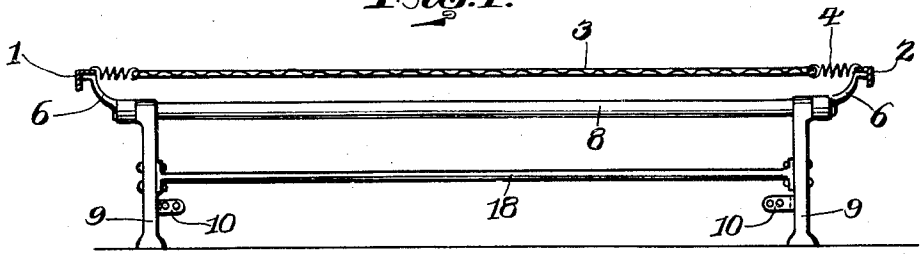


Fig. 2.

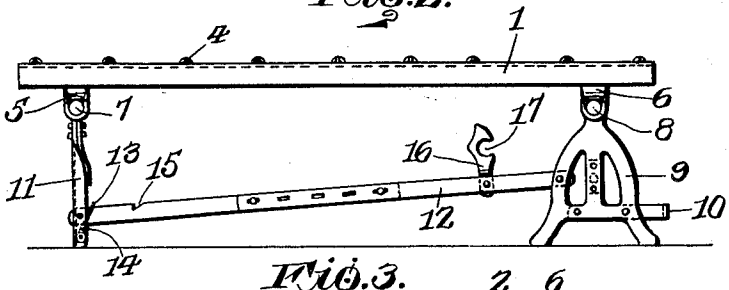
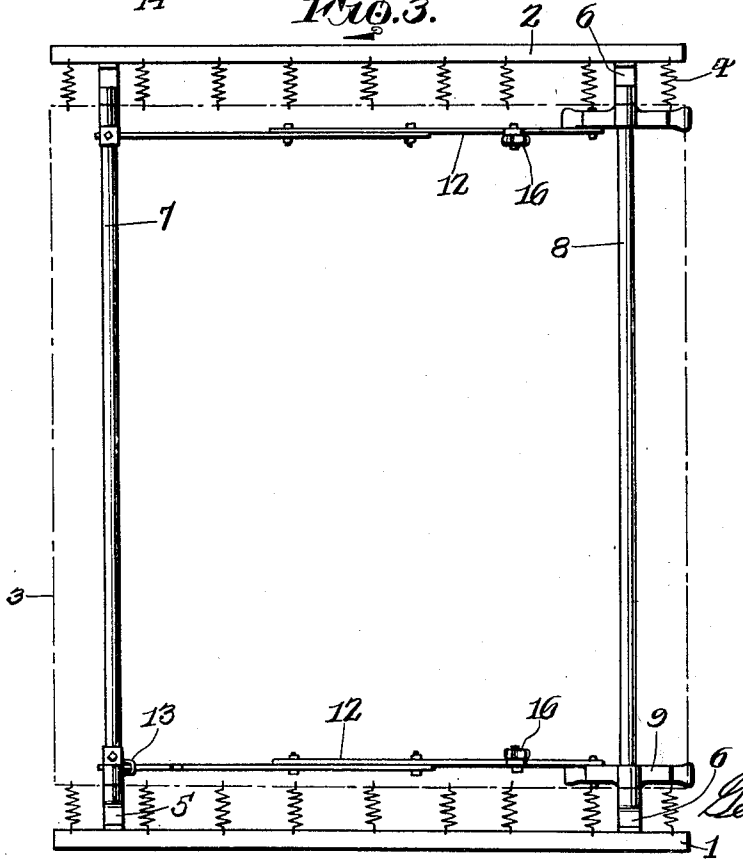


Fig. 3.



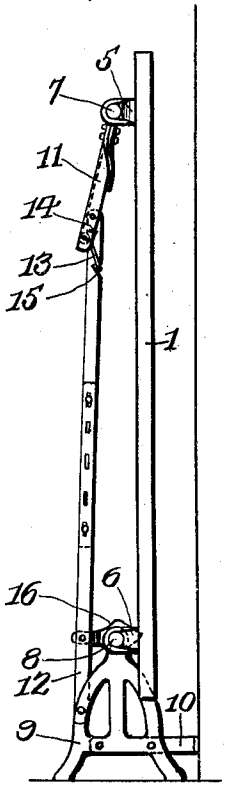


Fig. 4.

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Patented Feb. 11, 1930

1,747,028

UNITED STATES PATENT OFFICE

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FOLDING BED

Application filed March 5, 1929. Serial No. 344,523.

This invention relates to a folding bed and has for its primary object to provide, in a manner as hereinafter set forth, a full size bed which may be swung to vertical position when not in use, in order to conserve space within the room wherein the bed is placed.

A further object of the invention is to provide a bed as aforesaid which is provided with novel means for automatically latching the bed in a vertical position.

With the foregoing and other objects in view, the invention consists of the novel construction, combination and arrangement of parts as hereinafter more particularly described, and as illustrated in the accompanying drawings, wherein for the purpose of illustration is shown as embodiment of our invention, but it is to be understood that such drawing and description are to be taken as illustrative and that the invention is intended to be limited only by the scope of the claims hereunto appended.

In the accompanying drawings in which like numerals are employed to designate like parts throughout the same:

Figure 1 is a rear elevation of a bed constructed in accordance with this invention.

Figure 2 is a side elevation thereof.

Figure 3 is a top plan thereof.

Figure 4 is a side elevation thereof, shown in vertical position.

Referring to the drawings in detail, the numerals 1 and 2 designate the side members of our improved bed frame, between which is suspended a bed spring 3 which is connected to the frame members 1 and 2 by means of a plurality of resilient elements 4, such as coiled springs. Spaced from the ends thereof, each of the side frame members is provided with a pair of downwardly inclined brackets 5 and 6. The brackets 5 are fixedly secured to the end of a cylindrical rod 7 which constitutes the forward frame member of the bed and the brackets 6 are fixedly secured to the ends of a similar rod 8 which constitutes the rearward frame member of the bed.

The rod 8 is pivotally mounted in the upper ends of a pair of standards 9 which constitute the rear legs of the bed, and each of which is provided with a bracket 10 by means of which the standards may be secured to a wall or the like. Pivotally secured to the forward rod 7 is a pair of legs 11 which are preferably of channel constrution and which constitute the forward legs of the bed.

Connecting the standards 9 with the front legs 11 is a pair of adjustable controlling members 12, the rearward ends of which are pivotally connected with the standards 9, and the forward ends of which are pivotally connected with the legs 11. When the bed is swung to vertical position the controlling members 12 move about their pivotal connections with the standards 9 and front legs 11 thereby causing the front legs 11 to move about their pivotal connections with the rod 7. When the bed is swung to horizontal position, the front legs 11 are automatically forced to supporting position by the action of the members 12.

Pivotally connected to each front leg 11, below the connection of the controlling member 12 therewith, is a latch member including a loop 13 through which the controlling member 12 extends. The latch member 13 is provided with a spring 14 which normally exerts a pressure on the latch member away from the front legs 11 and when the bed is swung to vertical position the latch member 13 is automatically forced into a notch 15 formed in the controlling member 12 whereby the bed is automatically prevented from being returned to horizontal position until the latch member 13 for each supporting leg 11 is disengaged from its coacting notch 15.

Each of the controlling members 12 is provided adjacent its rearward end with a safety latch member 16 which is pivotally connected to the controlling member and formed with an arcuate notch 17 for engagement with the rearward frame member 8 when the bed is in vertical position. Preferably the standards 9 are hingedly connected together by means of a brace 18.

It is thought that the many advantages of a folding bed in accordance with this invention will be readily apparent, and although the preferred embodiment of the invention is as illustrated and described, yet it is to be

understood that various changes may be made in the size, shape and arrangement of parts, so long as such changes fall within the scope of the invention as defined in the appended claims.

What we claim is:

1. A folding bed comprising, a frame including a forward member, a rearward member, and a pair of side members connecting the forward and rearward members, a pair of standards for pivotally supporting the rearward member, a pair of supporting legs pivotally mounted on the forward member, a pair of controlling members, each having its respective ends pivotally connected with a standard and leg to provide for pivotal movement of the legs co-incidental with the pivotal movement of the rearward frame member, and means on each leg for coaction with its pivotally connected controlling member to prevent pivotal movement therebetween for latching the frame in fixed position relative to said standard, said means including a spring controlled, pivotally mounted element having a loop through which the controlling member extends.

2. A folding bed comprising, a frame including a forward member, a rearward member, and a pair of side members connecting the forward and rearward members, a pair of standards for pivotally supporting the rearward member, a pair of supporting legs pivotally mounted on the forward member, a pair of controlling members, each having its respective ends pivotally connected with a standard and leg to provide for pivotal movement of the legs co-incidental with the pivotal movement of the rearward frame member, and each formed with a notch adjacent its pivotally connected leg, and means on each leg for engagement with the notch and its pivotally connected controlling member to prevent pivotal movement between the controlling member and leg for latching the frame in fixed position relative to said standard.

3. A folding bed comprising, a frame including a forward member, a rearward member, and a pair of side members connecting the forward and rearward members, a pair of standards for pivotally supporting the rearward member, a pair of supporting legs pivotally mounted on the forward member, a pair of controlling members, each having its respective ends pivotally connected with a standard and leg to provide for pivotal movement of the legs coincidental with the pivotal movement of the rearward frame member, and each formed with a notch adjacent its pivotally connected leg, and means on each leg for engagement with the notch of its pivotally connected controlling member to prevent pivotal movement between the controlling member and leg for latching the frame in fixed position relative to said standard, said means including a spring controlled, pivotally mounted element having a loop through which the controlling member extends.

In testimony whereof, we affix our signatures hereto.

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