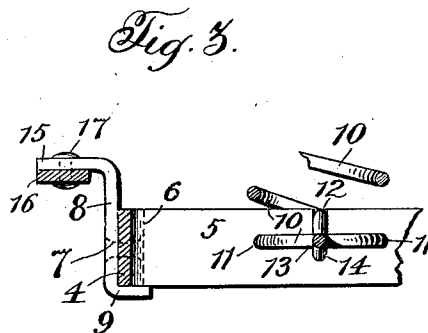
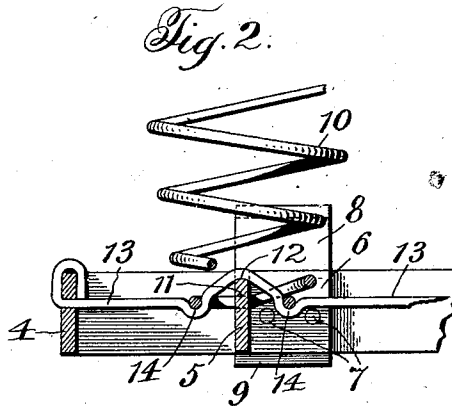
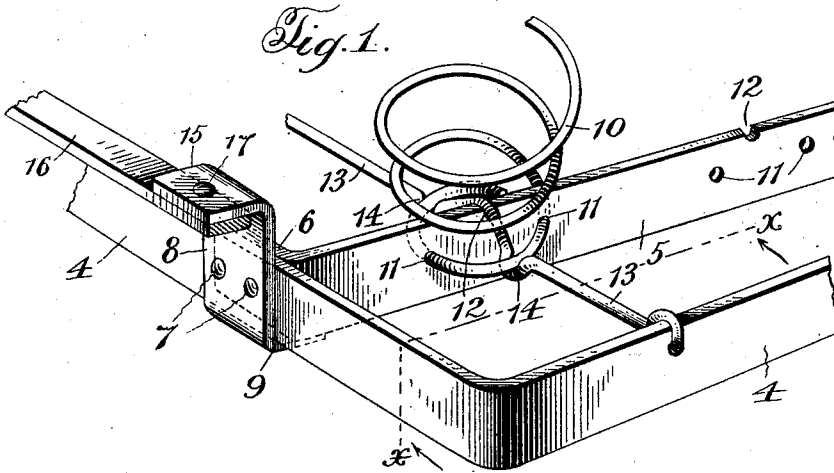


A. M. BEYMER.
BED SPRINGS.
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933,615.

Patented Sept. 7, 1909.



Witnesses:

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UNITED STATES PATENT OFFICE.

ARTHUR M. BEYMER, OF CARTHAGE, MISSOURI.

BED-SPRING.

933,615.

Specification of Letters Patent.

Patented Sept. 7, 1909.

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To all whom it may concern:

Be it known that I, ARTHUR M. BEYMER, a citizen of the United States, residing at Carthage, in the county of Jasper and State of Missouri, have invented certain new and useful Improvements in Bed-Springs, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention particularly relates to means for connecting and supporting coiled springs upon the carrying-frame of bed-springwork and to means for supporting the carrying-frame upon a bed-frame.

When read in connection with the description herein, the details of construction and arrangement of parts contemplated by this invention will be apparent from the accompanying drawing, forming part hereof, wherein an embodiment of the invention is disclosed, for purposes of illustration.

Like reference-characters refer to corresponding parts in the views of the drawing, of which—

Figure 1 is a fragmentary view in perspective; Fig. 2 is a sectional view through the cross-bar looking toward the hanger; and Fig. 3 is a sectional view on the line *x-x*, Fig. 1.

The springwork comprises a carrying-frame 4, having a plurality of parallel main bars 5 therein, of which only one is shown as being sufficient for illustrative purposes. In order to form a strong connection between the frame and bars, each bar has its end 6 turned to a position parallel with the frame and held thereto, on the inner side thereof, by rivets or bolts 7 or the like passing through the turned end and the frame.

At each place of attachment of a bar to the frame, a hanger 8, for engaging a bed-frame and supporting the carrying-frame thereon, is secured to the outer side of the carrying frame, by the rivets or bolts 7 or the like which hold the main bars, each hanger being secured in place at the same time as the adjacent bar. Each hanger has an intumed lower end 9, upon which both the lower surface of the frame and the lower surface of the bar rest, the weight imposed upon these parts being thereby received directly by the hanger. The securing means holding these parts in place are thus relieved of considerable weight and strain, and com-

pensation made for the weakening of the parts by the apertures necessary to accommodate the securing means. It is apparent that the hanger, if desired, may be secured on the inner side by being held by the rivets, bolts, or the like against the turned end 6 of the bar, in which event the lower end 9 of the hanger would be turned outwardly under the bar end and frame.

Springs 10 are supported at intervals along the bars 5. For each spring a bar is formed with two apertures 11, and with a notch 12 in its top surface. The lower convolution of a spring is passed through these apertures 11. Tie-wires or tie-rods 13 extend from end to end of the spring-frame and over the bars, and they are disposed in, and held against lateral movement by, the notches 12. Each wire or rod is bent downwardly on each side of each bar to form a seat 14 in approximately the same plane as apertures 11, and the lower convolution of a spring rests in these seats. From the seats 14 the wire or rod has an upward bend over the bar. It will thus be seen that each spring has four places of support, two on a bar and two on a tie wire or rod, whereby the weight imposed upon the springs is distributed between the bars and tie wires or rods, and that the springs are held down in place by the disposition of their convolutions through the apertures in the bars.

Under excessive weight, the frame of a bed-spring at times has a tendency to give, which might result in the disengagement of one or more of hangers 8 from the bed-frame. In order to obviate this, the out-turned ends 15 of the hangers along each side of the spring-frame are connected by a bar 16, which extends the length of or nearly the length of the spring-frame, and which is attached to the hangers by the rivets or the like 17, the bar operating to distribute to all hangers the strains received by one or more and to prevent the intermediate hangers slipping off the bed-frame by the giving of the spring-frame.

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

Springwork comprising a frame, bars extending from one side to another of said frame, tie members extending from end to end of the frame across said bars, each tie

member being depressed downwardly on
each side of each bar to form a seat and be-
tween said seats being bent upwardly and
over the bar and engaging a notch in the
5 top thereof, and springs each having a con-
volution passed through apertures in a bar
and resting in the seats of a tie member.

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

ARTHUR M. BEYMER.

Witnesses:

W. E. FORD,
J. L. HAINES.