

No. 725,030.

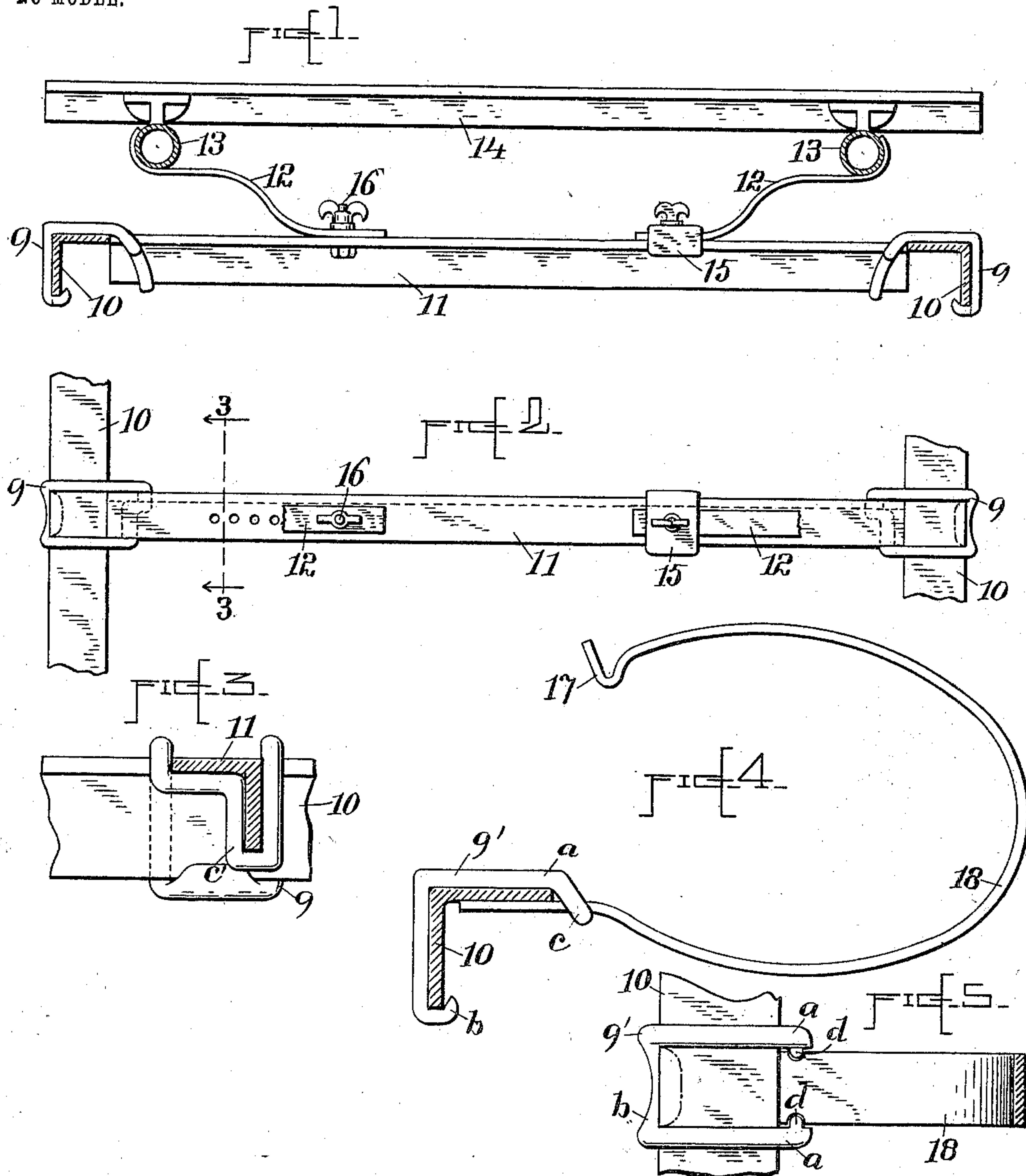
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SPRING SUPPORT FOR BED BOTTOMS.

APPLICATION FILED JUNE 5, 1901.

NO MODEL.



Witnesses:

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SPRING-SUPPORT FOR BED-BOTTOMS.

SPECIFICATION forming part of Letters Patent No. 725,030, dated April 14, 1903.

Application filed June 5, 1901. Serial No. 63,199. (No model.)

To all whom it may concern:

Be it known that I, GEORGE BRAND, a citizen of the United States, and a resident of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Spring-Supports for Bed-Bottoms, of which the following is a specification.

This invention relates to an improvement in bedsteads, and particularly to an improvement that may be attached to any bedstead for the resilient support of bed-bottoms, especially bed-bottoms of woven wire or which have metallic frames of round or angle iron.

The object of the invention is to provide a resilient support for such bed-bottom as an entirety and in a form such that said supports may be readily applied to any bedstead.

To this end the invention consists in the formation, construction, and combination of parts hereinafter described, and set forth in the claims.

In the accompanying drawings, which form a part of this specification, Figure 1 represents a vertical transverse section through a metallic bedstead equipped with one form of my improved support for bed-bottoms. Fig. 2 is a plan view with portions thereof broken away. Fig. 3 is an enlarged sectional view showing the clip forming a part of the support, taken on the line 3-3, Fig. 2. Fig. 4 is a side elevation, and Fig. 5 a plan, of a modified form of clip and spring-support.

As suggested above, it is my desire to provide for bed-bottoms which are now usually mounted rigidly in or upon bedsteads a resilient support whereby the ends of said bottom shall have vertical movement due to said support, while the remainder of said bottom has this movement in addition to the resiliency of the wire fabric or other structure from which the surface of said bottom is constructed.

The resilient support may take various forms and be mounted in various ways upon the bedstead. One form of my support is illustrated in Figs. 1, 2, and 3, wherein a clip, as 9, made in a manner such that it may be readily cast, as will be hereinafter more fully described, is removably mounted upon the side rail 10 of a bedstead, and into this clip is preferably laid an angle-iron 11, as shown,

though a flat or round iron may be used. Upon this iron are supported springs, as 12, provided with seats at their upper ends for the reception of the side rails 13 of the bed-bottom 14. The springs 12 may be secured to this iron in any suitable way, but preferably in an adjustable manner. A clamp, as 15, may be employed, as seen in Figs. 1 and 2, which may be moved longitudinally to any desired point upon the angle-iron 11, or a bolt, as 16, may be employed, which may be inserted in any one of a series of holes in such angle-iron, as seen in Fig. 2. By mounting said springs adjustably they may be shifted to receive bed-bottoms of various formations. The upper end of the springs 12 may also be varied in form to receive the side rails of different bed-bottoms. Said upper ends may assume, for instance, the shapes seen at 17 in Fig. 4, wherein they are constructed to receive angle or round irons, as fully shown in the latter figure.

Instead of mounting the springs upon a cross-bar, such as that shown at 11 in Figs. 1 to 3, said springs may be made in C form and mounted directly in clips, such as shown at 9' in Figs. 4 and 5. This clip, like the clip 9, consists, preferably, of a metallic loop shaped to the exterior contour of the angle-iron and consisting of side pieces *a*, joined at their lower ends by a cross-piece *b*, which shall serve as a lip for engaging the lower edge of the angle-iron, and joined at their upper forward ends by a cross-bar *c*, Figs. 4 and 5, and *c'*, Figs. 1 to 3, which cross-bar shall overhang the upper edge of the angle-iron and form a support for the C-spring 18 or the angle-iron 11. In the case of the C-spring the shank thereof rests on the cross-bar *c* and extends across the under side of the upper portion of the angle-iron 10.

To prevent longitudinal movement of the spring 18 upon the cross-bar *c*, one or more notches may be made in the edge of the shank of the spring, into which one or more projections, as *d*, formed upon the cross-bar *c* or the side pieces *a* of the clip, may extend.

The spring and clip, formed as seen in Figs. 4 and 5, are applied to the bedstead, either to the side rails or the corresponding rails in the head and foot piece, by first putting the clip in place upon the angle-iron forming said

rails and then entering the shank of the spring between the forward edge of the angle-iron and the cross-bar *c* and lowering it until its shank engages the under side of the angle-iron, when the projections *d* will enter notches, as seen in Fig. 5. By placing four such springs on the bedstead, two on each side or each end, ample support is provided for the bed-bottom.

10 By constructing the clip in the open-loop form it may be cast without the necessity of a core and is preferably cast from malleable iron.

While all the springs have been shown as 15 made from flat iron, they obviously may be made from round iron.

Other changes in the formation and construction of parts aside from those illustrated and described may be made without departing from the invention.

20 I claim as my invention—

1. A clip for attaching to a bedstead a spring-support for a bed-bottom, consisting of an open loop of metal the side pieces of 25 which are shaped to conform to the contour

of a bedstead-rail and the upper cross-piece of which overhangs the rail to receive and support the shank of the spring.

2. The clip consisting of an open metallic loop shaped to the external contour of an angle-iron and having a lip on the lower cross-bar of the loop for engagement with the lower edge of the angle-iron and the upper cross-bar of the loop overhanging the upper edge of the angle-iron and serving to sustain a resilient support for a bed-bottom. 30 35

3. The combination with a bedstead-rail of a supporting-spring for a bed-bottom said spring having a notch in its shank, and a clip supported upon the bedstead-rail and having 40 an overhanging cross-bar provided with a projection for entering said notch or notches for the purpose set forth.

Signed at New York city, in the county of New York and State of New York, this 31st 45 day of May, A. D. 1901.

GEORGE BRAND.

Witnesses:

E. L. LAWLER,
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