

(No Model.)

O. S. FOSTER.
SPRING BED.

No. 526,831.

Patented Oct. 2, 1894.

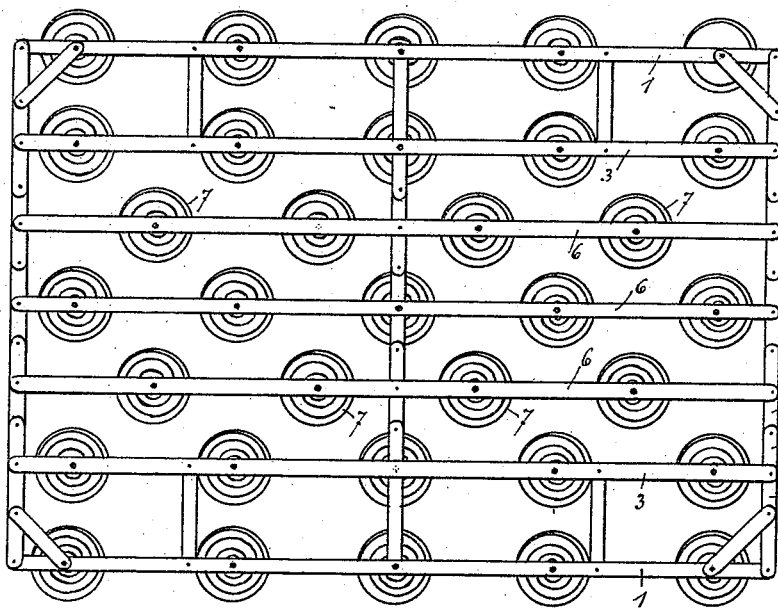


Fig. 1.

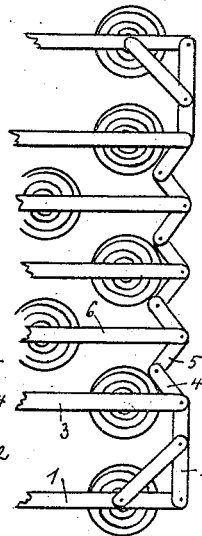


Fig. 3.

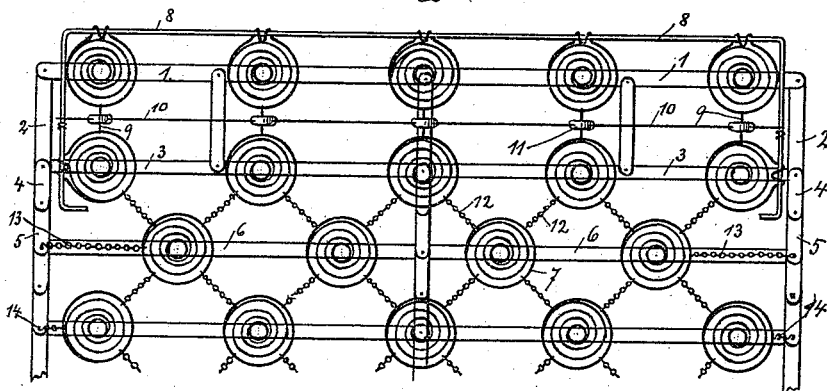


Fig. 2.

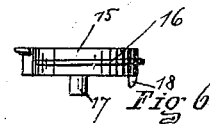


Fig. 6.

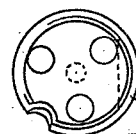


Fig. 8.

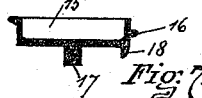


Fig. 7.

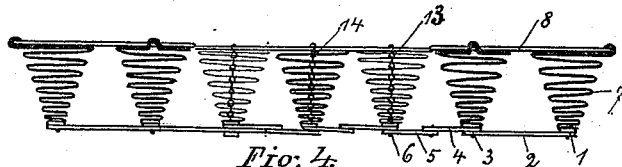


Fig. 4.

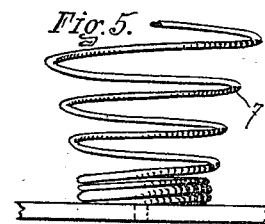


Fig. 5.

WITNESSES.

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OSCAR S. FOSTER, OF UTICA, NEW YORK.

SPRING-BED.

SPECIFICATION forming part of Letters Patent No. 526,831, dated October 2, 1894.

Application filed April 22, 1892, Serial No. 430,167. (No model.)

To all whom it may concern:

Be it known that I, OSCAR S. FOSTER, of Utica, in the county of Oneida and State of New York, have invented certain new and useful Improvements in Spring-Beds; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form part of this specification.

My invention relates to an improvement in spring beds, and has as its object, to provide a bed that is adjustable in its width and provided with rigid sections at each side between which the adjustment is effected and which rigid sections prevent the edges of the bed from rolling up.

A further object is to provide a novel and effective spring holder whereby the springs may be easily and readily applied, and are effectively held in an upright position.

In the drawings which accompany and form part of this specification and in which similar numerals of reference refer to similar parts in the several figures, Figure 1 shows a bottom plan view of the bottom of the bed. Fig. 2 shows a top plan view of a section of the bed, all the parts being shown. Fig. 3 shows the end of the bed adjusted in narrowing its width. Fig. 4 shows an end view. Fig. 5 shows one separate spring and spring-holder on which it is mounted. Figs. 6, 7 and 8 show an edge, plan and sectional view of the spring holder.

Referring more particularly to the reference numerals marked on the drawings, in a more specific description of the device 1 indicates the outside rails or slat of the bottom, to which is attached end portions 2, 2. To the projecting ends of end portions 2 and extending between them is longitudinal slat 3. The outside rail taken in connection with the longitudinal slat 3 and end portions in L-shape to the outside rail and necessary cross braces or stays forms a rigid section of bottom at the side of the bed. Between the rigid sections at either side of the bed extends a jointed cross-bar or slat composed of sections as 4 and 5 pivoted to each other and

to the side sections. There are also provided other longitudinal rails or slats as 6, secured at every second joint in the cross-bars. On the slats of the bottom thus formed are mounted at suitable intervals in vertical position, conical spiral springs 7, which springs are formed at their lower ends with one or two convolutions lying close to each other and of a diameter suitable to receive the holder hereinafter described, and at the top the springs terminate in a convolution which forms a ring lying in a plain parallel with the bed bottom.

The border springs of the side sections are preferably provided with a hook formed by a double and bend in the upper convolution of the spring, which hook engages a border wire 8 extending along the sides and across the ends of the side sections. This particular manner of connecting the border wire and springs, however, is not material.

The upper ends of the springs are connected in the side section by transverse wires 9 and longitudinal wires 10 and clip 11 securing the two at their intersection and the several springs between the side sections are connected by short chains as 12. There are also provided at the ends of each row of springs between the side sections, chains as 13 and 14 which extend from the top convolution of the spring down on an incline and connect with the bottom.

The spring holder 15 consists of a cylindrical shell provided with a spiral projecting rim or thread 16 and a closed end or head from which extends a rivet projection 17 for securing the holder to the slat upon which it is mounted and a projection 18 for engaging the body or side of the slat for preventing it turning on the projection 17.

It will be understood that the projections 17 and 18 may be omitted and other means provided for securing the holder, as for instance screws, depending somewhat on the kind of surface on which it is desired to mount the holder and other modifications may be made in and to the whole construction without departing from the equivalents of my construction.

In applying the spring to the holder it is screwed on and if the holder is a trifle larger than the convolutions of the spring, the con-

volutions will expand as the spring is screwed on and will coil around the holder and secure it firmly. The spring may also become wedged between the thread and the surface on which the holder is secured.

In narrowing the bed the adjustable portions of the cross-bars are doubled into the position shown in Fig. 3 which narrows the whole bed while the rigid side sections give firmness and enable it to maintain its shape.

What I claim as new, and desire to secure by Letters Patent, is—

The combination in a spring bed of a slat or bar forming a portion of the frame, a spring holder having a cylindrical body and a spiral projecting thread on the exterior thereof adapted to be engaged between the convolutions of the spring, means for securing the holder on the surface of the slat or bar, and

a spiral spring having contiguous convolutions at its end engaged with and secured to the slat by having the spiral projection on the holder introduced between the contiguous convolutions of the spring, the convolutions embracing the holder with an elastic tension and the lower convolution of the spring wedged between the spiral projection and the slat or bar thereby taking up any looseness as between the holder and bar and obviating any rattling or disagreeable noise in use, all substantially as set forth.

In witness whereof I have affixed my signature in presence of two witnesses.

OSCAR S. FOSTER.

Witnesses:

RICH. A. GEORGE,
M. E. ROBINSON.