(No Model.) 2 Sheets—Sheet 1.

W. BULKELEY.

SPRING BED BOTTOM.

No. 259,810. Patented June 20, 1882.

Fig. 1.

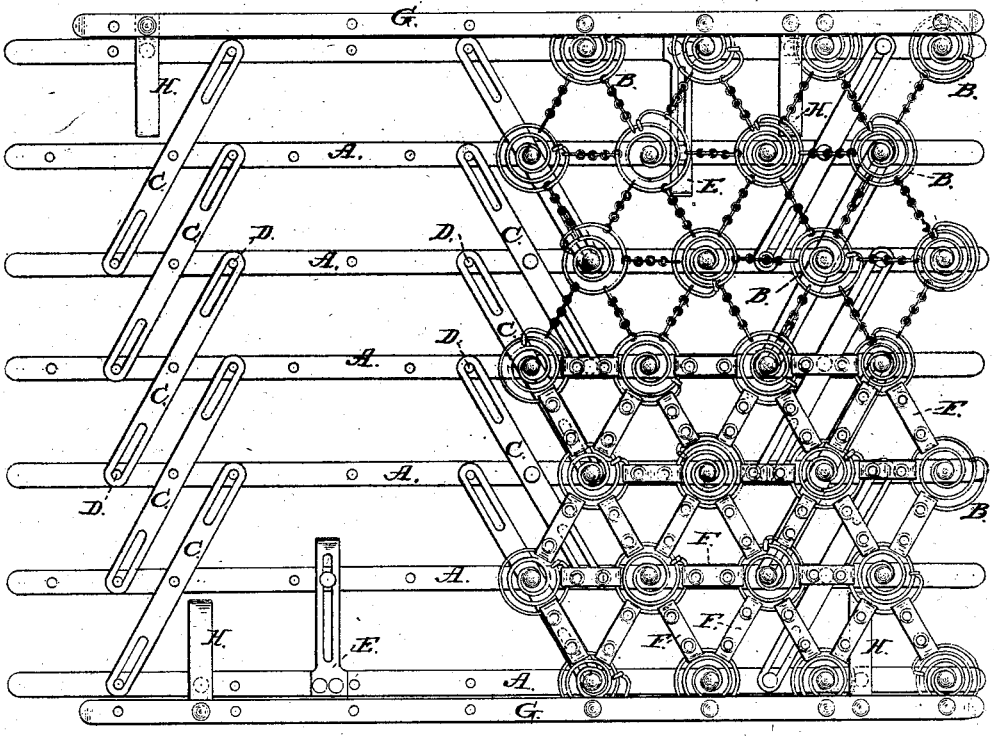

Fig. 2.

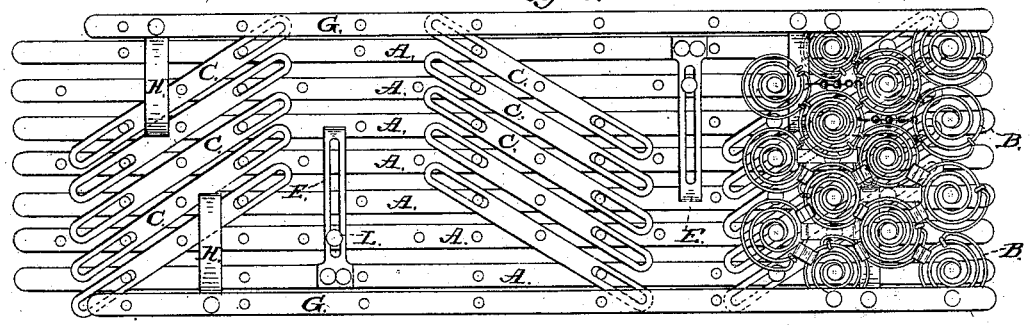

Fig. 3.

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(No Model.) 2 Sheets—Sheet 2.

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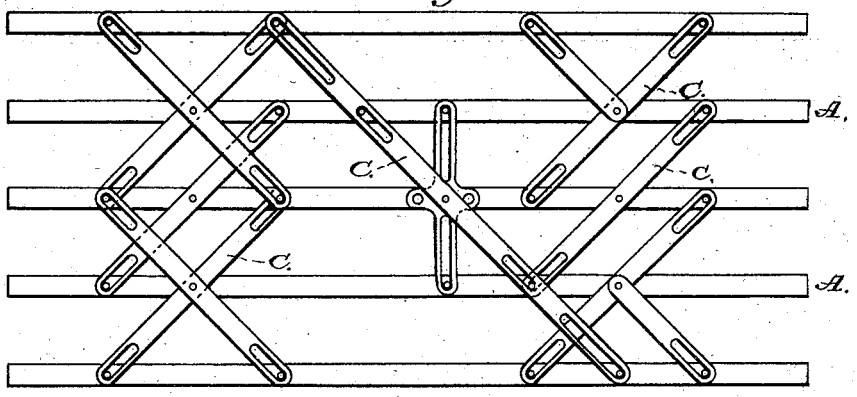
Fig. 4.



Witnesses:
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UNITED STATES PATENT OFFICE.

WORTHINGTON BULKELEY, OF CLEVELAND, OHIO.

SPRING BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 259,810, dated June 20, 1882.

Application filed February 6, 1882. (No model.)

To all whom it may concern:

Be it known that I, WORTHINGTON BULKELEY, a resident of Cleveland, county of Cuyahoga, and State of Ohio, have invented certain new and useful Improvements in Spring Bed-Bottoms; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

This invention relates to that class of bed-bottoms in which a series of parallel slats are connected together by transverse strips to form an extensible frame, which admits of being closed together or opened out to fit beds of different widths, and for convenience in transportation.

The object of my invention is to produce a less costly, more simple, and conveniently-adjusted bed-bottom, which shall have proper rigidity in its frame, and yet admit of ready compression or extension, as occasion shall require.

In the accompanying drawings, Figure 1 is a plan view, showing my improved bed-bottom extended, the conical springs being removed from one end thereof to illustrate more clearly the arrangement of its diagonal cross-pieces. Fig. 2 is a like view thereof when closed together. Fig. 3 is an end view of Fig. 2. Fig. 4 illustrates a modification in the arrangement of the diagonal cross-pieces.

In said drawings, A represents slats of suitable material and dimensions to form proper supports for conical springs B, which are fastened at their lower ends to the slats by means of rivets, or in any other suitable manner, either in regular or alternate order. The slats A A are placed parallel to each other to form the bed-bottom, and are connected by means of transverse bars or strips C C. These strips are laid at an angle with the slats. Each strip is pivoted to one of the slats, while its ends, extending out over the adjacent slats, are slotted longitudinally at the points of intersection therewith to receive pins D D, which, projecting upward from the slats into the slots, serve to form therewith a yielding or sliding joint. The slots throughout the entire series being of equal length, serve to limit the extension of the bottom frame, as shown in Fig. 1, as well as to permit its being closed until the parallel slats are all brought into contact, as shown in Fig. 2.

The outermost slat of the series on each side may be combined with the next adjacent slat, not only by its joint with the diagonal strip, but by means of one or more transverse strips, E, riveted to the outer slat, and which, projecting therefrom at a right angle over the next slat, are connected thereto by means of a pin on the slat and an extended longitudinal slot in the transverse strip, as shown in Figs. 1 and 2.

The diagonal slotted strips C C, each hinged, as shown and described, to one of the parallel slats A, permit of a movement of the slats to and from each other, so that different widths may be given to the bed-bottom, as desired; or it may be closed up into a small compass for transportation, as shown in Figs. 2 and 3.

Upon each of the outer slats a lateral top rail, G, is supported upon a level with the top of the conical springs by means of two or more curved or C-shaped springs rigidly secured at either end both to the slat and rail, so as to bend inward between the two, as shown in Fig. 3. These springs not only support the top rails, but prevent any end motion thereof.

The top of the conical springs B B, which are secured upon the slats, may be connected by flexible chains, in the customary manner, or by straps F F, Fig 1, of webbing, leather, or other suitable material.

The pins D D, projecting through the slots in the sliding joints, may be headed to prevent a disengagement of the strips from the slats, and one or more of them may be threaded and fitted with nuts, by means of which the bed-bottom, when adjusted, may be locked in position.

It is obvious that by a proper adaptation of my invention the bed-bottom may be made adjustable lengthwise instead of transversely, and also that the number as well as the arrangement of the slotted transverse strips may be largely varied without departing from the invention.

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

1. In an adjustable bed-bottom composed of parallel supporting-slats connected by transverse strips, each confined to a slat, the combination of extended longitudinal slots formed in said strips at their intersection with the adjacent slats with pins projecting from said slats and fitted with rigid heads or adjustable nuts adapted to confine the strips, substantially as and for the purpose set forth.

2. In an adjustable bed-bottom, the combination, with its supporting-slats and one or more slotted transverse strips, of threaded pins and nuts, whereby the bed-bottom may be secured at any desired width, substantially as described.

3. In an adjustable bed-bottom, the combination, with its parallel supporting-slats, of diagonal strips, each pivoted at its center to one of the slats and jointed to one or more of the adjacent slats at either end by means of a pin on the one passing into a longitudinal slot in the other, substantially as shown, and for the purpose set forth.

4. In an adjustable bed-bottom constructed of parallel slats carrying spiral springs, and made adjustable to and from each other, an upper outer rail, upheld over the longitudinal slats on each side of the bed-bottom upon interposed independent curved or C-shaped springs, substantially as described.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

WORTHINGTON BULKELEY.

Witnesses:
JOHN T. MORTON,
L. H. WARE.