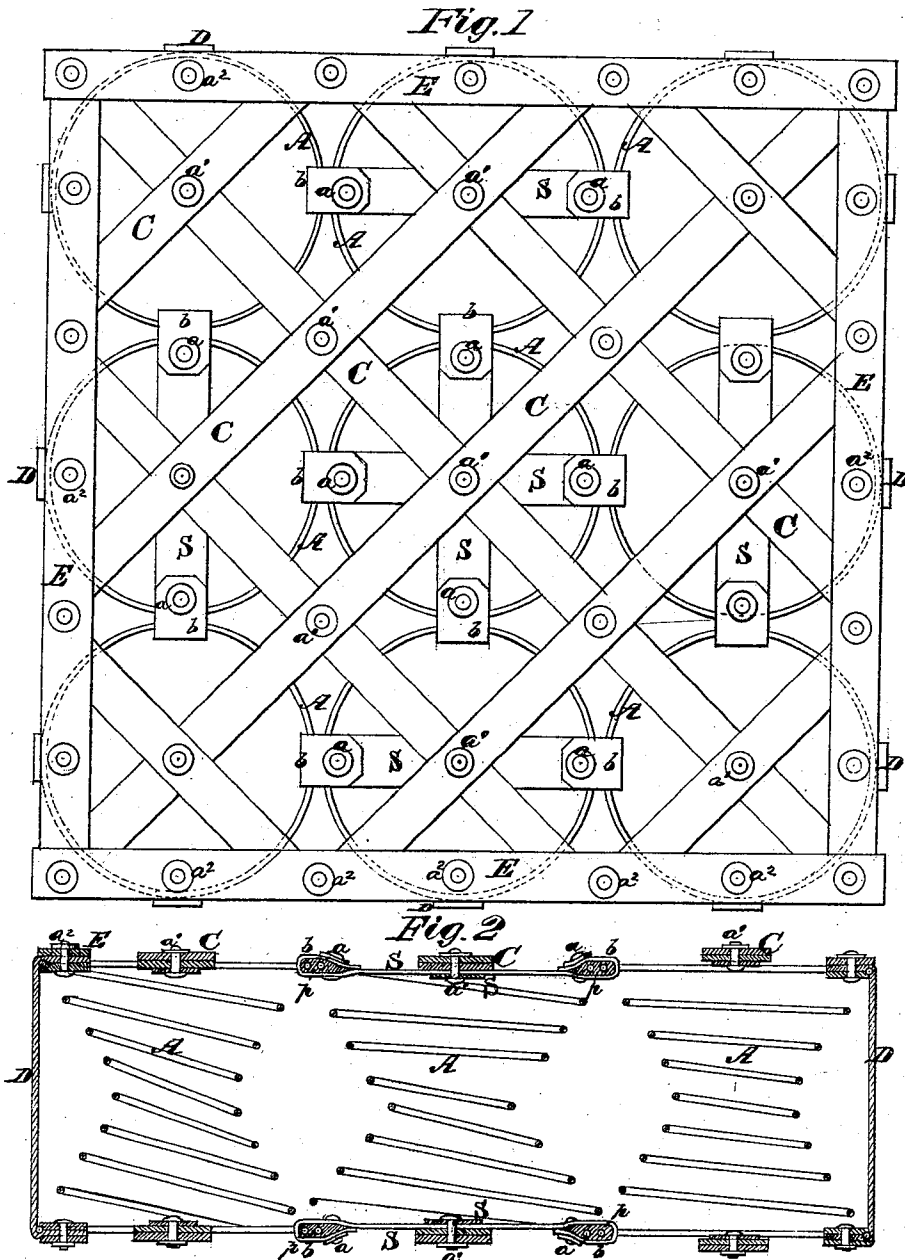


W. B. Judson,

Bed Bottom.

No. 110,854.

Patented Jan. 10, 1871.



Witnesses.
R. T. Humphreys
J. H. Campbell

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WILLIAM B. JUDSON, OF POUGHKEEPSIE, NEW YORK, ASSIGNOR TO J. P. NELSON, JR., OF SAME PLACE.

Letters Patent No. 110,854, dated January 10, 1871.

IMPROVEMENT IN BED-BOTTOMS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, WILLIAM B. JUDSON, of Poughkeepsie, in the county of Dutchess, and State of New York, have invented an Improved Bed-Bottom; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is a top view of the bed-bottom.

Figure 2 is a vertical section taken centrally through the same.

Similar letters of reference indicate corresponding parts in the two figures.

This invention relates to an improvement on spring bed-bottoms or mattresses, wherein the springs are confined in place between webbing, which is composed of narrow, flexible strips, crossed and connected at the crossing by means of rivets.

The improvements which I have made on bed-bottoms of this kind consist in connecting the springs together by means of straps, which are looped and riveted around the wire of which the springs are composed, said straps being connected to the webbing by means of rivets, thereby preventing the springs from being twisted or displaced, and also causing them to mutually sustain each other, at the same time preserving the capability of folding the bottom into a small compass, as will be hereinafter explained.

The following description of my invention will enable others skilled in the art to understand it.

In the accompanying drawing—

A A represent helical springs which represent frustums of cones connected at their apices.

These springs are arranged in parallel lines within flexible frames B B, which, respectively, constitute the border of the top and bottom sheets of webbing.

Each border is composed of an upper and a lower strip of leather, rubber, cloth, or other suitable material, between which strips the ends of the diagonal strips C and the vertical-connecting strip D, together with the top wires of the outside springs, are confined by means of rivets *a*².

The diagonal strips C C, above and below the springs, cross one another, and are riveted at the crossings so as to form meshes, the whole constituting a light, flexible webbing, to which the springs are all connected, as will be hereinafter explained.

The springs A are connected together by means of strips S, made of metal or other suitable material, and connected to the spring-wire by looping the strips S, and using rivets *a* to retain the looped connections.

If the strips S are of metal, packing *p* will be used, which may be of leather, cloth, or rubber, and which is embraced by the loops *b* between them and the spring-wire; such a packing will prevent noise.

It will be seen, by reference to the drawing, that the central spring A of the bed-bottom has, at each end, two looped strips, S S, applied to it, and extending diametrically across it at right angles to each other; also, that the loops *b*, formed on each end of each strip, connects another spring to the central spring; thus there are four springs connected to the central spring by the strip S.

Each one of the springs A, surrounding the central spring, is connected at each end to two springs A by means of the looped strips S.

In this way all the springs employed in the bed-bottom are connected together and mutually aid in holding one another in an upright position.

At every point where the webbing strips C C cross the centers of the springs A these strips are secured by rivets *a'* to the strips S, thus connecting the springs to the webbing.

The strips D D connect the sheets of webbing together.

The webbing strips C extend diagonally across from one border to the other, but it is obvious that they may be arranged so as to cross each other at right angles, forming squares whose sides are parallel to the border strips.

Having described my invention, What I claim and desire to secure by Letters Patent, is—

The combination of the webbing strips C and connections S, the latter looped around the spring-wire, and also riveted to the webbing C, substantially in the manner and for the purpose described.

WILLIAM B. JUDSON.

Witnesses:

CHAS. B. HERRICK,
JAMES H. WAKE.