H. L. Huntington,

Bed Bottom,

No. 71,014. Patented Nov. 19, 1867.

Fig. 1.

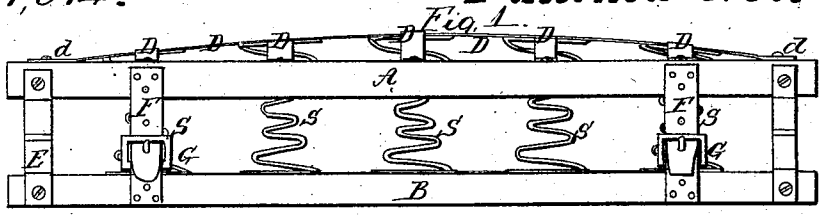


Fig. 2.

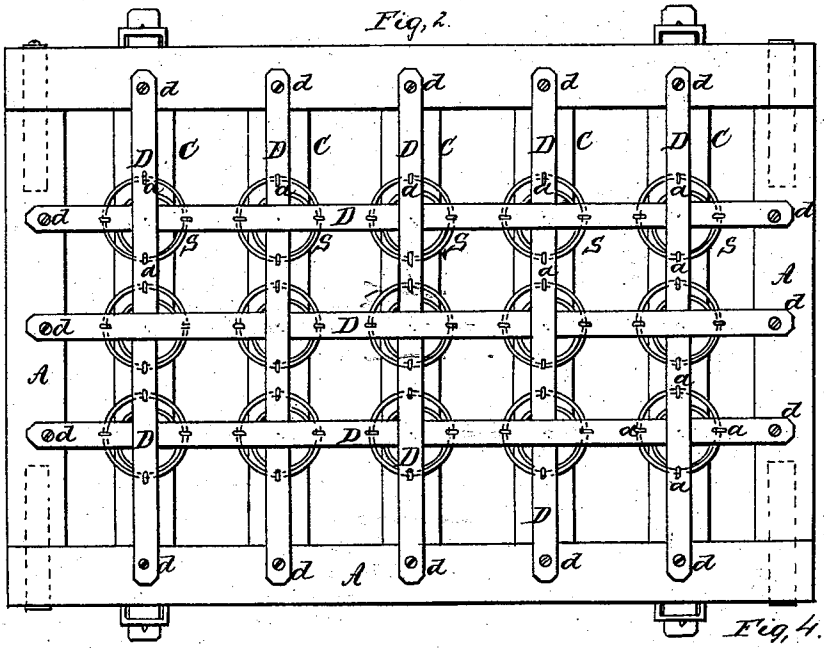


Fig. 3.

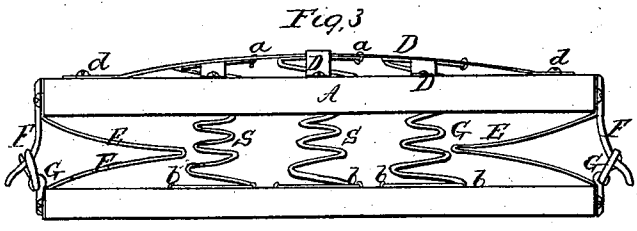
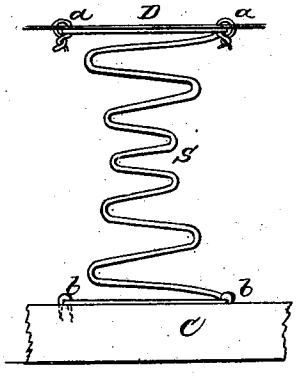


Fig. 4.



Witnesses
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HEMAN L. HUNTINGTON, OF CHICAGO, ILLINOIS.

Letters Patent No. 71,014, *dated November* 19, 1867.

IMPROVED SPRING-BED BOTTOM.

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, HEMAN L. HUNTINGTON, of Chicago, in the county of Cook, and State of Illinois, have invented a new and useful improvement in Spring-Beds; and I do hereby declare and make known that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and the letters and figures of reference marked thereon, which form part of this specification.

My said invention relates to that class of spring-beds consisting of a double frame, the upper part being supported upon spiral springs, so that the entire upper side of the bed may yield upon pressure uniformly; and it consists in a novel device for retaining the aforesaid spiral springs in a vertical position, and prevents their inclination to one side, in which case their desired effect is lost.

It further consists in the arrangement with said double frame of peculiar-formed springs, whereby the extreme edges of the upper frame are properly supported, and whereby the said upper frame is held in position directly over the lower frame, and kept from assuming an oblique position with respect thereto, in which it acts. together with the device first above referred to.

To enable those skilled in the art to understand how to construct and make use of my said invention, I will proceed to describe the same with particularity, making reference in so doing to the aforesaid drawings, in which—

Figure 1 represents a side elevation of my invention.

Figure 2, a plan or top view of the same.

Figure 3 an end view thereof, and

Figure 4 is a side view of one of the spiral springs with its attachments.

Similar letters of reference in the several figures denote the same parts of my invention.

A represents the upper frame, and B the lower frame, the latter being provided with permanent cross-slats C, upon which the lower ends of the springs S rest, and are permanently secured, as shown. The upper frame A is of a rectangular form, corresponding with the lower one, and I provide said frame A with a series of thin metallic strips D, whose ends are firmly secured to the frame, as shown at *d*, said strips crossing and interlacing with each other in such a manner as to cross each other directly over the upper ends of the said springs S, as shown, so that said springs may be firmly and rigidly secured to said thin strips of metal, by means of loops or staples of wire, marked *a*, so as effectually to prevent the tops of the springs from tipping over, and holding the springs upright in their positions, as desired. The said strips may be interlaced, as shown, or each set may pass over or under the crossing set, and said strips may cross each other diagonally, if prefered. Thus it will be seen that the upper frame is supported upon the springs and the said strips, the outer edges at each end being supported upon the V-shaped springs E, as shown in fig. 3, which, besides serving to support the upper frame, prevent its moving sideways, said springs acting more and more in the latter respect as the upper frame is depressed. Thus it will be observed the strips D serve to keep the springs individually in the desired vertical position, while the springs E prevent the upper frame from any lateral movement, which would displace the springs from a vertical position collectively. The two frames A B are connected at their sides by means of the buckles and straps G F, by means of which the upper frame can be drawn down to increase the resisting force of the springs, as may be desired.

Having described the construction and operation of my invention, I will now specify what I claim, and desire to secure by Letters Patent—

1. I claim the combination of the frames A B, springs S, metallic strips D, and V-shaped springs E, arranged as and for the purposes specified.

2. I claim the combination of the frames A B, springs S, strips D, and straps and buckles F G, substantially as and for the purposes specified.

3. I claim the combination of the frames A B, springs S, V-shaped springs E, and straps and buckles F G, as and for the purposes described.

HEMAN L. HUNTINGTON.

Witnesses:

W. E. MARRS,

L. L. COBURN.