

WILLIAM P. SADLER.

Improvement in Spring Bed-Bottoms.

No. 126,579.

Patented May 7, 1872.

Fig. 1.

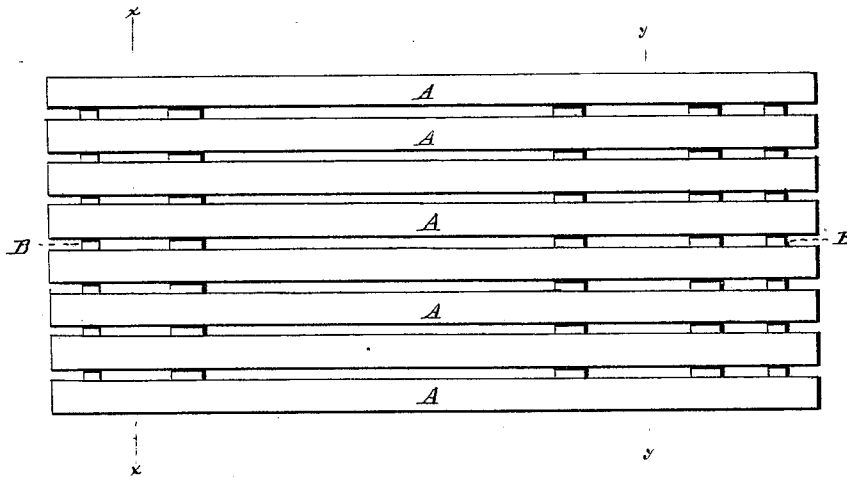


Fig. 3.

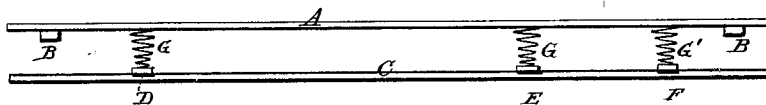


Fig. 4.

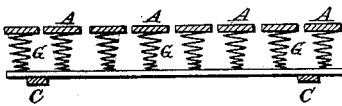


Fig. 5.

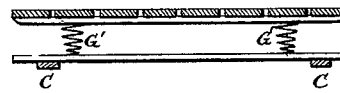
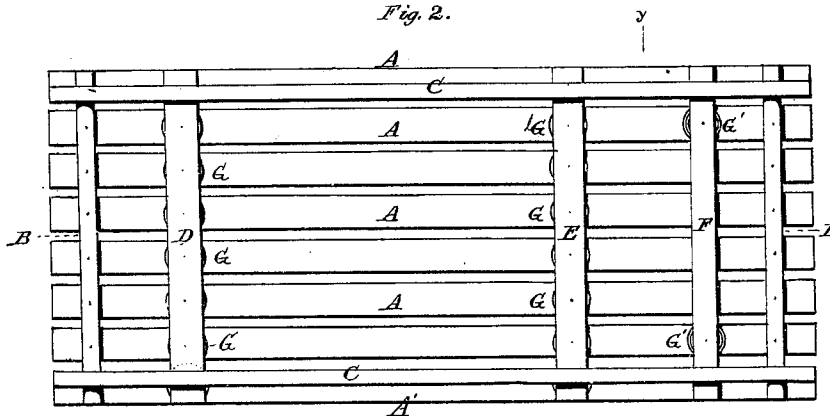


Fig. 2.



Witnesses.

C. H. Foote
John R. Young

Inventor.

Wm. P. Sadler, by
Prindle & Co. Attys.

UNITED STATES PATENT OFFICE.

WILLIAM P. SADLER, OF SPRINGFIELD, ILLINOIS.

IMPROVEMENT IN SPRING BED-BOTTOMS.

Specification forming part of Letters Patent No. 126,579, dated May 7, 1872.

To all whom it may concern:

Be it known that I, WILLIAM P. SADLER, of Springfield, in the county of Sangamon and State of Illinois, have invented certain new and useful Improvements in Spring Bed-Bottoms; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a plan view of the upper side of my device; Fig. 2 is a like view of the lower side of the same; Fig. 3 is a side elevation of said device; and Figs. 4 and 5 are cross-sections of the same on the lines *x x* and *y y*, respectively, of Figs. 1 and 2.

Letters of like name and kind refer to like parts in each of the figures.

The object of my invention is the production of a bed-bottom that, while possessing great elasticity, shall have its parts so combined and adjusted as to adapt it to the form and weight of the person; and to this end it consists principally in the combination and relative arrangement of the upper or supporting slats, the cross-slats, and the spiral springs, substantially as and for the purpose hereinafter specified. It consists further in combining with the above-named parts longitudinal supporting spring-slats, in the manner and for the purpose hereinafter set forth.

In the annexed drawing, A and A represent a series of thin wooden slats, corresponding in length to the space between the head and foot rails of a bedstead, and secured together in parallel lines and at equidistant points by means of two narrow cross-bars, B, placed beneath the same near their ends. Beneath the slat-bottom thus arranged is a supporting-frame composed of two longitudinal slats, C, placed near the sides of said bottom, and connected together by means of three cross-bars, the first of which, D, is placed at a distance of about one-fourth the length of the slats A from their upper ends; the second cross-bar, E, is placed

about one-third the length of said slats from their lower ends, while the third cross-bar, F, occupies a position midway between the lower ends of said slats and said bar E. Secured within and extending between each slat A and the cross-bars D and E is a spiral spring, G, of usual form, while the cross-bar F (constructed, preferably, lighter than those before named) is provided with two springs, G', which extend upward beneath, and are connected with the second slat A from each side.

As thus constructed, the device is complete, and its operation is as follows: The weight of the body resting upon the shoulder and hip, readily presses downward, the slats between the cross-bars D and E, so as to cause the same to conform to the outline of said parts, while from their position with relation to the head and legs said cross-bars and their springs furnish an elastic support for said parts, and hold them in an easy and natural position with relation to the body. The lower cross-bar F with its two springs furnishes for the ends of the slats the support required by the position of the cross-bar E, while the whole device, resting upon the ends of the spring-slats C, has a firm, although elastic, bearing.

Having thus fully set forth the nature and merits of my invention, what I claim as new is—

1. In combination with the slats A, connected together by means of the bars B, the cross-bars D, E, and F, and the springs G and G', said parts being relatively arranged substantially as and for the purpose specified.

2. Also, in combination with the slats A, cross-bars D, E, and F, and the springs G and G', the spring slats C, substantially as and for the purpose shown.

WILLIAM P. SADLER.

Witnesses:

J. K. BRADLEY,
W. P. OLDEN.