

I. BUSH.

Spring Bed-Bottoms.

No. 135,885.

Patented Feb. 18, 1873.

Fig. 1.

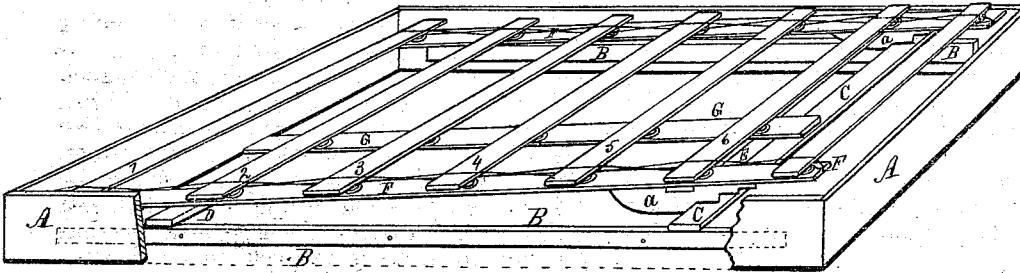
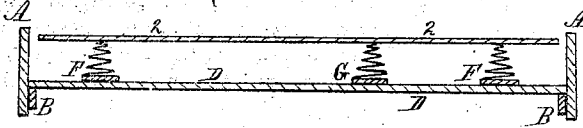


Fig. 2.



Witnesses.

Geo. H. Mananalt
R. G. Orwig.

Isaac Bush,

Inventor.

Thomas G. Orwig, Atty.

UNITED STATES PATENT OFFICE.

ISAAC BUSH, OF INDIANOLA, IOWA, ASSIGNOR OF ONE-HALF HIS RIGHT
TO CHARLES McKAY, OF SAME PLACE.

IMPROVEMENT IN SPRING BED-BOTTOMS.

Specification forming part of Letters Patent No. 135,885, dated February 18, 1873.

To all whom it may concern:

Be it known that I, ISAAC BUSH, of Indianola, in the county of Warren and State of Iowa, have invented an Adjustable Spring Bed-Bottom, of which the following is a specification:

The object of my invention is to provide a spring bed-bottom that will conform to the shape of the body, and that can be readily adjusted to elevate the head, and also to meet the unequal pressure on the sides occasioned by two persons of different weight. It consists in attaching graduated blocks on the under side and head end, and in a sliding bar carrying coil-springs, all as hereinafter fully set forth.

Figure 1 of my drawing is a miniature perspective view illustrating the manner of constructing and operating my adjustable spring-bed.

A A represent a bedstead which may vary in form. B B is a strip of board, attached in a common way on the inside of the side rails to strengthen the rails and to support the bed-bottom. C C is a movable cross-piece resting upon the supports B B. D D is a similar cross-piece permanently attached to the bed-bottom, and forms a part thereof. Its ends also rest on the supports B B. E is a cross-piece framed in the blocks *a a* on the under sides and near the head ends of the pieces F F. F F are the longitudinal side pieces to which coil-springs are attached. 1 2 3 4 5 6 represent a series of slats running crosswise, and secured and held up by the coil-springs attached to the pieces F F. Two flexible cords or straps are attached in a common way to encircle the ends of the slats to keep them in position and to make them co-operate in bearing up the person or persons on the bed. Each slat is allowed independent play to such an extent that it will alternately rise and sink to conform with the shape of the body resting thereon. *a a* are graduated blocks permanently attached to the under sides and head ends of the side pieces F F, and afford a simple means of elevating the head and shoulders whenever desired. The movable cross-piece C C is shown underneath the graduated block, and the head end of the bed-bottom elevated thereby. To lower it and make it level, simply slide the cross-piece C C forward until it is free from the blocks *a a*. By a series of steps in the blocks

different degrees of elevation can be readily attained by simply moving the piece C C from one step to another. G G is a longitudinal piece, which has coil-springs permanently attached, and moves laterally on the cross-pieces D and E.

Fig. 2 is a transverse section of the bed, and illustrates the manner of adjusting the laterally-sliding piece G G to meet unequal pressures and to keep the bed even.

The coil-springs are attached to the sliding piece G at intervals corresponding with the series of cross-slats 2 3 4 5 6, and press against the slats and aid in holding them up. When two persons of equal weight occupy the bed the sliding piece G should be in the center. For persons of unequal weight it should be moved toward the side occupied by the heaviest person. A complete and simple means is thus provided for keeping the bed even and level. I fasten the base of the coil-springs to the pieces F F and G, by means of L-shaped staples, in such a manner that the end of the wire-coil will hook around one of the staples and clasp to it when there is any weight or pressure upon the spring to expand the coil. The end of the wire at the apex of the spring is coiled around a screw and the screw driven into the slat; but I do not confine myself to any particular mode of fastening the coil-springs.

Any common method of fastening may be adopted to accomplish the purposes contemplated by my invention.

I am aware that spring bed-bottoms with slats running lengthwise and also crosswise have been made to rest upon coil-springs. I claim, however, that the mode of elevating the head and adjusting the bed for persons of unequal weight is a new and valuable improvement.

Claim.

I claim as my invention—

In the construction of a spring-bed, the combination of the graduated blocks *a a* and the sliding piece G carrying a series of coil-springs, substantially as described, and for the purposes specified.

ISAAC BUSH.

Witnesses:

HAMILTON BROWNE,
JOHN GOLDING.