

M. Faloon,

Bed Bottom.

No. 112,912.

Patented Mar. 21, 1871.

Fig. 1

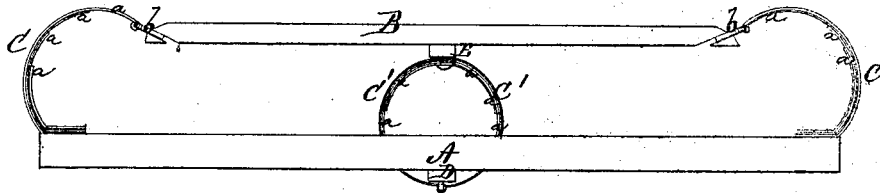
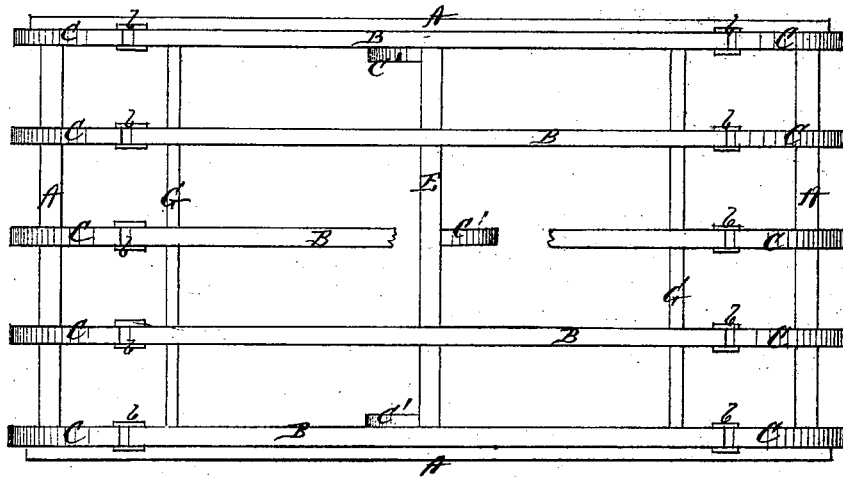


Fig. 2



Witnesses:

C. L. Lunt.
J. D. Hutchinson

Inventor.

Matthew Faloon
per *Shandon Mason*
Atty.

United States Patent Office.

MATTHEW FALON, OF BLOOMINGTON, ILLINOIS.

Letters Patent No. 112,912, dated March 21, 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, MATTHEW FALON, of Bloomington, in the county of McLean and in the State of Illinois, have invented certain new and useful Improvements in Bed-Bottoms; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in so constructing and arranging the springs on bed-bottoms that the weight upon the same will be at all times equalized; that is, in such a manner that if a heavy person is lying on one side, and a light one or none at all on the other side, the springs will nevertheless give equally, and keep the bed level, or, in other words, I transfer the excess of weight on which ever side it may be to the other side.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side view, and

Figure 2, a plan view of my improved bed-bottom.

A represents the bed-bottom frame, and

B B are the bed-slats, running longitudinally.

The slats B B and the end-pieces of the frame A are connected by means of springs C C, made of spring-steel, or any other suitable material.

These springs are made of two, three, four, or more leaves, *a a*. The outside leaves are longer than the inside ones, or, in other words, they gradually diminish in length from the outside to the inside, and the ends of the leaves will stand a little apart from each other.

A child or light person will spring the outside leaf, the next heavier one the next leaf, and so on until a very heavy person will spring on the shortest leaf, and in this way equalize the weight at the ends of the general bed.

These springs are attached to the slats B by means of loops *b*, fitting in inclined notches cut in the under side of the slat near the ends, as shown in fig. 2.

In the center of the frame A is a cross-bar, D, and under the slats B B above said cross-bar is another cross-bar, E.

These two cross-bars are connected by means of three springs, C', constructed in the same manner as the end springs C C, but placed in a reversed position.

These springs equalize the weight of the persons the same as described for the end springs. The cross-bar E prevents a person from lying in the shape of a trough, as it will prevent one slat from going down further than the other.

The middle one of the center springs C' acts as a pivot to the others, as the large person lying on either side will cover more space than a small one, and presses down two springs and a part of the third one, thus making it a perfect equalizing bed-spring all over the bed. It is also perfectly noiseless.

The same kind and arrangement of springs may be applied to car-seats, lounges, and other furniture where springs are needed.

The slats B B may be connected near their ends by means of straps, G G, as shown in fig. 2.

Having thus fully described my invention,

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

1. The spring C, formed of two or more leaves, *a a*, which are connected together at their lower ends, and disconnected at their upper portions, as and for the purposes herein set forth.

2. The combination of the frame A, slats B B, and end springs C C, constructed and arranged substantially as and for the purposes herein set forth.

3. In combination with the frame A, slats B B, and end springs C C, the cross-bars D E and center springs C' C', constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 29th day of August, 1870.

MATTHEW FALON. [L. s.]

Witnesses:

JNO. E. MAY,

JAMES K. NOBLE.