S. B. FREEMAN.

Bed-Bottoms.

No. 144,754. Patented Nov. 18, 1873.

Fig. 1.

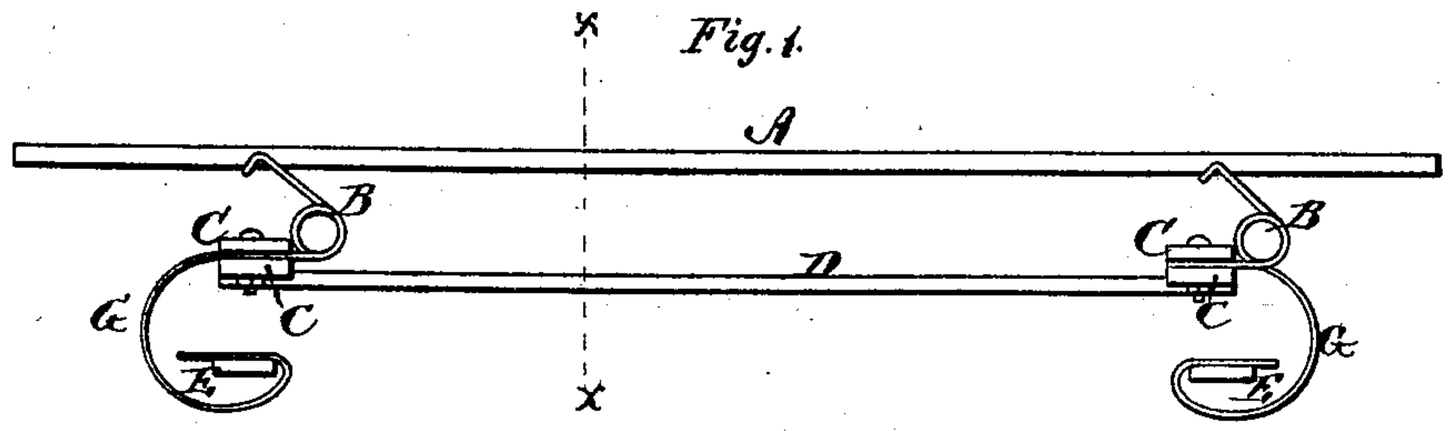


Fig. 2.

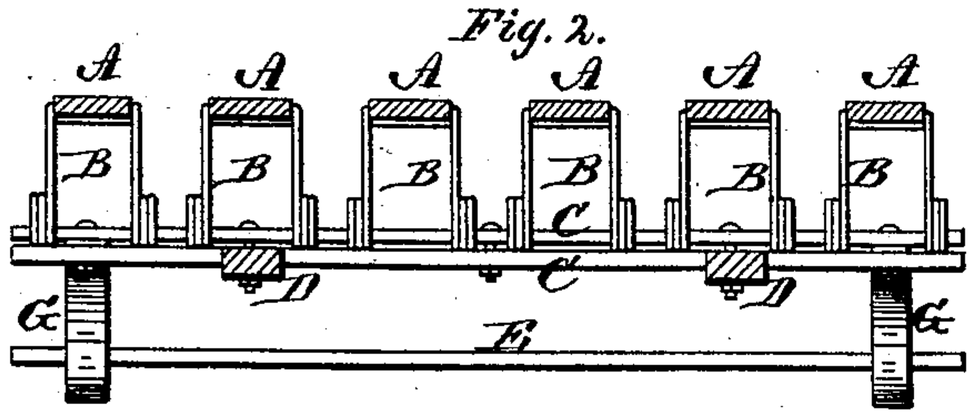


Fig. 3.

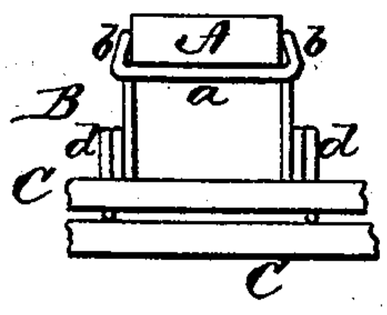
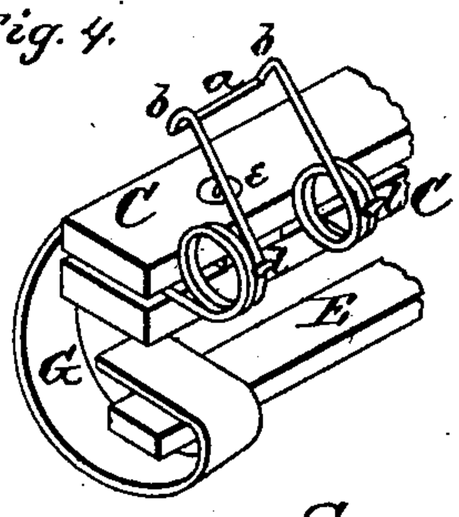


Fig. 4.



WITNESSES.

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UNITED STATES PATENT OFFICE.

SAFFORD B. FREEMAN, OF FORT WAYNE, INDIANA.

IMPROVEMENT IN BED-BOTTOMS.

Specification forming part of Letters Patent No. **144,754**, dated November 18, 1873; application filed October 30, 1873.

To all whom it may concern:

Be it known that I, SAFFORD B. FREEMAN, of Fort Wayne, in the county of Allen and in the State of Indiana, 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 drawings and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a spring bed-bottom, as will be hereinafter more fully set forth.

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 elevation of my bed-bottom. Fig. 2 is a transverse section of the same through line *x x*, Fig. 1. Fig. 3 is an end view of one of the slats, showing the manner of supporting the same; and Fig. 4 is a perspective view, showing one of the springs supporting the bed-bottom and one of the springs supporting the slats.

A A represent a series of slats to run lengthwise of the bedstead. Each of these slats is supported near each end by a wire spring, B, made of one piece of wire. The spring B is constructed in the following manner: The wire is left straight in the center, at *a*, for a distance a little longer than the width of the slat, and the ends bent at right angles with said straight part *a*, as shown at *b b*, for a distance equal to or a little less than the thickness of the slat. The ends are then bent downward and run straight for a certain distance, after which they are twisted to form the coils *d d*, and the extreme ends of the wire are inserted between two bars C C, which are clamped together by screws *e e*, or other suitable means. The bends *b b* are bent inward, as shown particularly in Fig. 3, so that when the slat A is laid upon the straight part *a* of the spring, said parts *b b* clamp it and hold it in place without any other fastening. The two bars, or the double bar C C at each end of the bed-bottom, extend the entire width of the bedstead, and longitudinal bars D D connect the two double bars, as shown. In each of the double bars C C, near each end, is clamped a spring, G, made somewhat in the form of a letter **C**, the lower end being bent inward. This completes my bed-bottom.

In the bedstead, near each end, is placed one of the ordinary bed-slats E, and the springs G G are hooked on the same in the manner shown in Figs. 1 and 4, the springs passing under said slats and up to the double bars C.

When pressure is brought to bear on the bed-bottom the springs G G assume the shape nearly of the letter **O**.

This bed-bottom is perfectly noiseless, is easily put in the bedstead, and removed when desired. The bars C being double, very light stuff may be used in the manufacture.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination of the slats A A, wire springs B B, double bars C C, and **C**-shaped springs G G, all constructed substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 27th day of October, 1873.

S. B. FREEMAN.

Witnesses:
C. L. EVERT,
A. N. MARR.