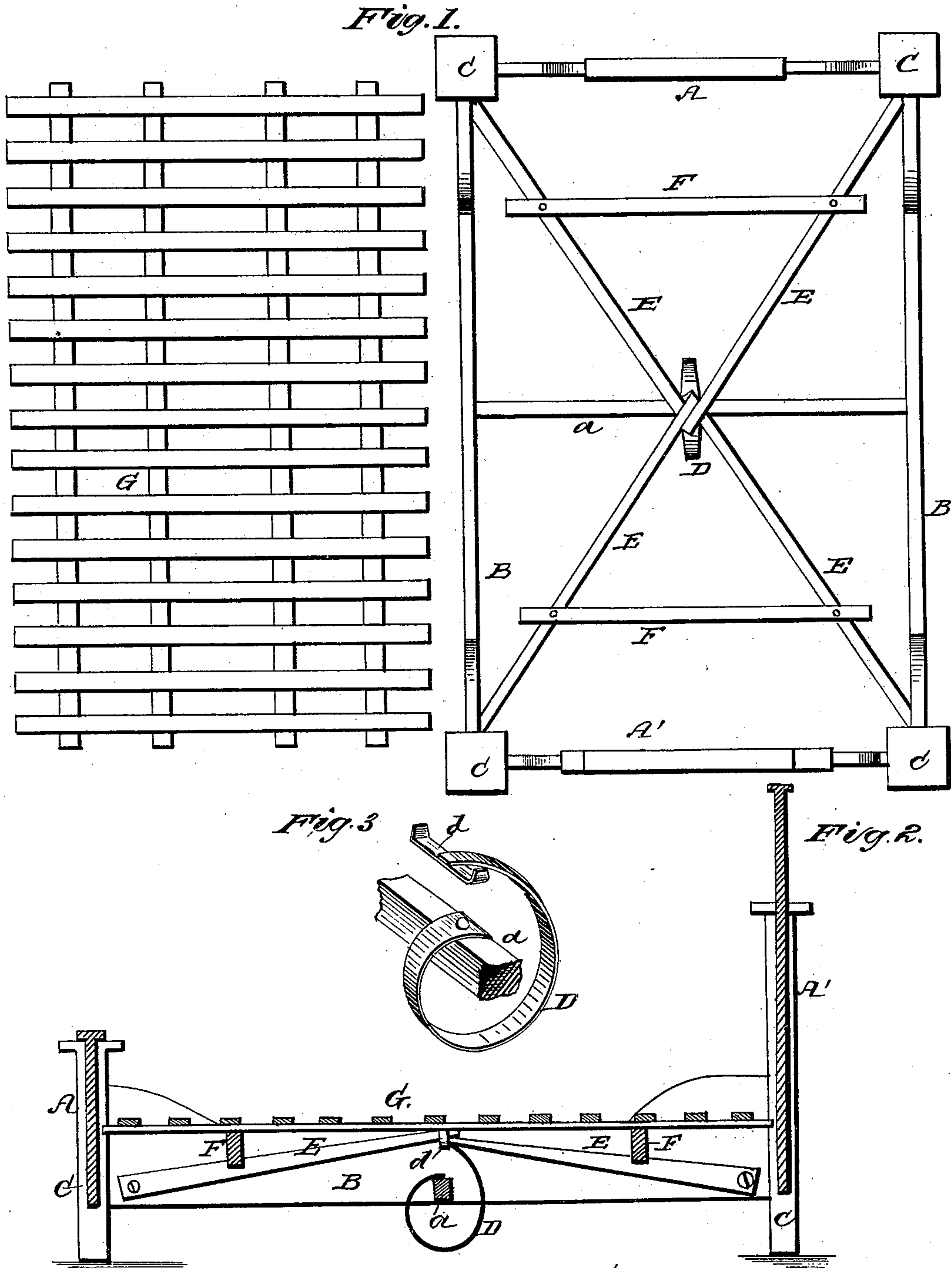


(Model.)

W. T. HAYHURST.
Spring Bed Bottom Frame.

No. 236,584.

Patented Jan. 11, 1881.



Witnesses.
Fred. G. Dieterich
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UNITED STATES PATENT OFFICE.

WALLACE T. HAYHURST, OF LINEVILLE, IOWA.

SPRING BED-BOTTOM FRAME.

SPECIFICATION forming part of Letters Patent No. 236,584, dated January 11, 1881.

Application filed April 24, 1880. (Model.)

To all whom it may concern:

Be it known that I, WALLACE T. HAYHURST, of Lineville, in the county of Wayne and State of Iowa, have invented certain new and useful Improvements in Spring Bed-Bottom Frames; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a plan view of my improved bed-bottom with the slat-frame removed and disposed to one side, also shown in plan. Fig. 2 is a longitudinal section with the slat-frame in position upon the bottom proper, and Fig. 3 is a detail perspective view of the center elastic support or spring.

This invention relates to improvements in spring bed-bottom frames, and has for its object to equalize or distribute pressure to maintain a level surface regardless of inequality in the weight of the occupants of the bed, and to affect the parts of the bottom uniformly, whatever may be the relative position of the weight or occupant.

The nature of my invention consists of four or more spring-bars with their divergent ends, or rather the divergent ends of each pair, firmly secured to the side rails at the foot and the head, or directly to these latter, while their convergent ends are free to move vertically up or down, and are supported upon a clip, which is secured upon the free end of a curved spring attached centrally to a middle cross piece or bar in the bed-frame, which said spring-bars with their central spring support a slat-frame for carrying the mattress, substantially as hereinafter more fully set forth.

In the accompanying drawings, A is the foot and A' the head board, and B B are the side rails, with posts C C uniting said parts at the corners, as shown.

Centrally to the side rails, B B, is fastened a cross-bar, *a*, with one end of a curved spring, D, preferably of flat metal, fastened thereto, while the upper end of the spring D is provided with a crosswise or transverse clip or stirrup, *d*, the function of which will appear presently.

E E are four or more spring-bars with their divergent ends firmly fastened or bolted to the head and foot ends of the side rails, or

they may be fastened directly to the foot and head board and rigidly united together, each pair by a cross-bar, F, while their convergent tapering and flexible ends are free to move independent of each other as pressure is brought thereon or removed therefrom, with one in each pair extending in the same direction, resting side by side in the clip or stirrup *d* of the spring D, and the others extending oppositely, but in the same relative direction with each other, resting upon the former bars, as shown in Fig. 1. This permits their endwise movement without interfering with each other, while at the same time, by their convergence and all meeting together, these ends of the bars are supported upon the spring D. By having the bars E rigidly connected together by the cross-bars or braces F F, and having their free ends converged centrally in the bed-bottom and supported upon a spring, it will be seen that while the requisite spring or elasticity is obtained, yet the superimposed slat-frame G is evenly supported in its center by the converging ends of the spring-bars E and their spring-support D, and on each side of the center, midway toward the head and foot boards, respectively, by the cross-bars F F, as clearly shown in Fig. 2, so that it will yield or give evenly over its entire area, and is not liable to sag at any one part or place.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. A spring bed-bottom frame consisting of two pairs of converging spring-bars, E E E E, each pair being united by a brace or cross-bar, F, and secured in opposite corners of the bedstead, in combination with the centrally-disposed curved spring-support D, substantially as set forth.

2. The combination of the bed-frame A A' B B with its corner-posts C, middle cross-bar, *a*, having spring D, centrally-converging spring-bars E, having braces F, and superimposed slat-frame G, substantially as and for the purpose herein shown and specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WALLACE T. HAYHURST.

Witnesses:

JAMES HAVENS REGER,
T. F. KING.