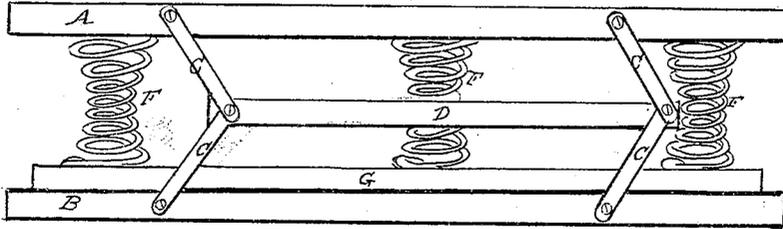


Cook & Simmons'
Improved Bed Bottom

72605

Fig. 1.



PATENTED
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Fig 2.

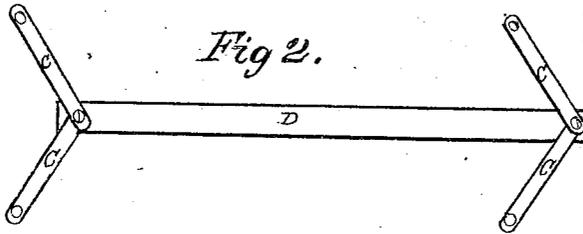
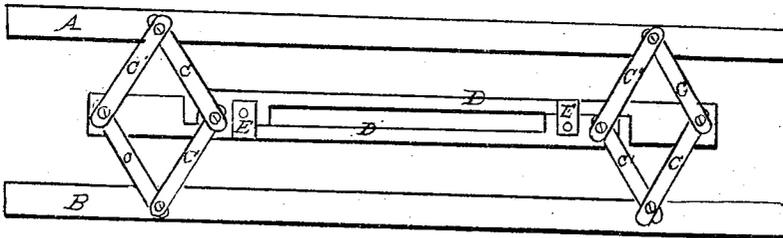


Fig 3.



Witness
James M. Taylor
Adelia Simmons

Horner Cook
Chas. E. Simmons

United States Patent Office.

HOMER COOK AND CHARLES E. SIMMONS, OF WAUKEGAN, ILLINOIS.

Letters Patent No. 72,605, dated December 24, 1867.

IMPROVED BED-BOTTOM.

The Schedule referred to in these Letters Patent and making part of the same.

Be it known that we, HOMER COOK and CHARLES E. SIMMONS, of Waukegan, in the county of Lake, in the State of Illinois, have invented new and useful Improvements in "Bed-Bottoms;" and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of our invention consists in providing an ordinary spiral or coil-spring bed-bottom with combinations of bars in couplets, with a horizontal bar connecting two couplets, for the purpose of causing every part of the upper frame to settle alike, when pressure is applied to or weight comes upon any particular part of it; also, to stay said upper frame from swaying laterally, thus causing its motion to be perpendicular.

To enable others skilled in the art to make and use our invention, we will proceed to describe its construction and operation.

We construct an ordinary spiral or coil-spring bed-bottom in the usual form, with two frames, the spiral or coil-springs resting upon slats placed across the lower frame, the upper frame being covered with canvas, and resting upon and being supported alone by the springs, as shown in fig. 1, in which A is the upper frame, B the lower frame, G the slat, and F F F are springs. The bars C C C C are constructed of metal or wood, and have a hole in each end. They are attached in pairs to the horizontal wooden or metal bar D, on the side, one pair near each end, by a screw or rivet passing through the hole in one end of each of the bars C C C C, as shown in fig. 2. When thus combined, the whole is attached by similar screws or rivets through the other end of the bars C C C C, either to the inside or outside edge of the frames A and B, (also to the sides, if desired,) the point of attachment to the frame A being directly above the one on the frame B. The bars C C C C are of such a length as that, when the springs are not depressed, the bars will form an obtuse angle of about one hundred and thirty-five degrees at the point where they are attached to the horizontal bar. When this combination of bars is attached to the frame of the bed-bottom, as described, and any pressure is applied to or weight comes upon any part of the canvased frame, all parts of the same will descend alike, and each spring in the bed-bottom will thus be made to bear its due proportion of such pressure or weight. In order to prevent any swaying of the upper frame A, we attach a second set of bars to the frames of the bed-bottom, as shown in fig. 3, in which C' C' C' C' are the short bars and D' is the horizontal bar, all being attached to the frames by the same screws used in attaching the first set, but placed in a reversed position, so that the angles of the second set are turned in a direction opposite to the first, and the horizontal bars D and D' being halved, except at the outer ends, and so placed one above the other that all the joints connecting the short bars C C C C and C' C' C' C' with said horizontal bars will be in a line; the bars D and D' being held together by the clasps E E, said clasps being constructed in any convenient form, and so attached as to permit said bars D and D' to slide easily through them. This combination will stay the upper frame from swaying.

What we claim as our invention, and desire to secure by Letters Patent, is—

The combination of the short bars C C C C with the horizontal bar D, for the purpose of equalizing the pressure upon the upper frame, so that all parts of it shall settle alike. Also, the application of two sets of these bars to the same end or side of the bed-bottom, to stay the upper frame and prevent all swaying, all constructed, combined, and applied substantially as and for the purposes described.

HOMER COOK,
CHAS. E. SIMMONS.

Witnesses:

JAMES M. TAYLOR,
ADELLA SIMMONS.