

H. H. Palmer,

Bed Bottom.

N^o 5,856.

Patented Jan 2, 1866.

Fig: 1.

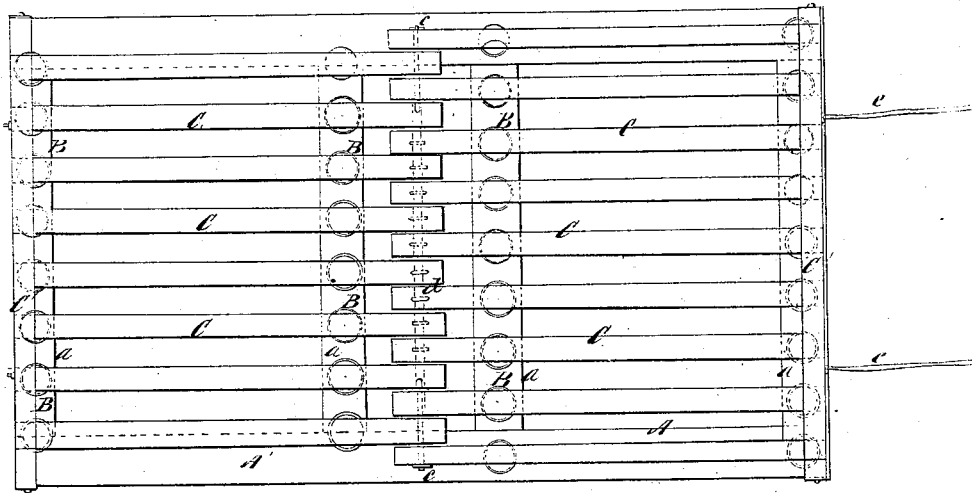


Fig: 2.

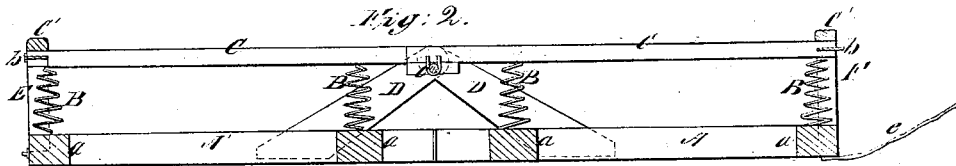
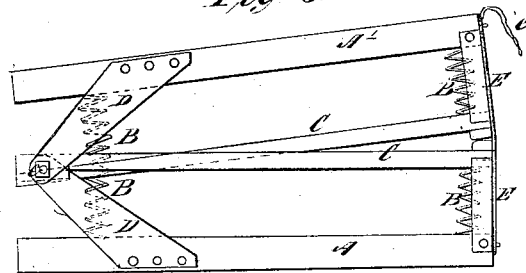


Fig: 3.



Witnesses:

*Wm. Brown
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per *manuscript*
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UNITED STATES PATENT OFFICE.

HENRY H. PALMER, OF ROCKFORD, ILLINOIS.

BED-BOTTOM.

Specification forming part of Letters Patent No. 51,856, dated January 2, 1866; antedated December 28, 1865.

To all whom it may concern:

Be it known that I, HENRY H. PALMER, of Rockford, in the county of Winnebago and State of Illinois, have invented a new and Improved Bed-Bottom; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a plan or top view of my invention in an open or distended state; Fig. 2, a side view of the same; Fig. 3, a side view of the same in a folded state.

Similar letters of reference indicate like parts.

The object of this invention is to obtain a slatted spring bed-bottom which, while being elastic or yielding—equally so as others now made—will retain its shape however long in use. The ordinary slatted spring bed-bottoms soon have their slats sprung, so that they assume a permanent hollow form, and when the bed is made up it is uncomfortable to occupy. This difficulty, it is believed, is fully obviated by my improvement.

A A' represent two rectangular frames, the cross-pieces *a a* of which have spiral springs B attached to them at suitable and equal distances apart. These two frames may be of equal size, and they are not connected directly together, as will be presently seen.

C represents a series of slats, the outer ends of which are slotted horizontally to receive a strip, *b*, of leather or any flexible material. The inner ends of these slats extend a trifle past each other, as shown clearly in Fig. 1, and they rest upon the springs B. The two outer or side slats over one of the frames, A, and the one outer or side slat over the other frame, A', are connected by metal rods *c*, while the other slats are connected by a cord, a piece of twisted leather, or other flexible material, *d*, passing through eyes at the under sides of the same. By this means a compound joint is obtained, the outer or side slats specified having a stiff joint, while the others have a flexible one. The one outer or side slat over each frame A A', at each side, are connected

by transverse bars C', underneath which the outer ends of the other slats bear, and the outer or side slats, near their ends, are connected with the frames A A' by oblique flexible braces D D, while the outer ends of said slats are connected to said frames by flexible vertical braces E. These braces serve as a check for the springs.

To the end of the frame A there are attached two straps, *e e*, by which said frame and the slats connected with it may be retained in any desired degree of elevation.

From the above description it will be seen that the slats C are comparatively short, and each slat supported by two springs, B B. The slats, therefore, are prevented from springing or warping, so as to assume a permanent hollow form, while the slats are allowed to yield or give freely under the weight of the occupant of the bed, and the bed-bottom may, for convenience of transportation, be folded, as shown clearly in Fig. 3, or the part A may be elevated and retained in a more or less inclined position by the straps *e e* for the convenience of invalids.

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

1. The upper frame-work of slats composed of two sets of slats connected together at the center or at their inner ends, or at any point between their center and either end, by means of a hinge or joint, substantially as set forth.
2. The compound joint composed partly of metallic and partly of flexible material, substantially as described.
3. The flexible braces D E, with the flexible straps *b*, in connection with the slatted frames and the rigid lower frames, A A', with the straps *e* attached to the former, for the purpose specified.
4. The combination of the upper slatted frames with the lower rigid ones and the springs attached to both, all constructed and arranged substantially as set forth.

HENRY H. PALMER.

Witnesses:

SILAS G. TYLER,
HENRY P. STOCKTON.