

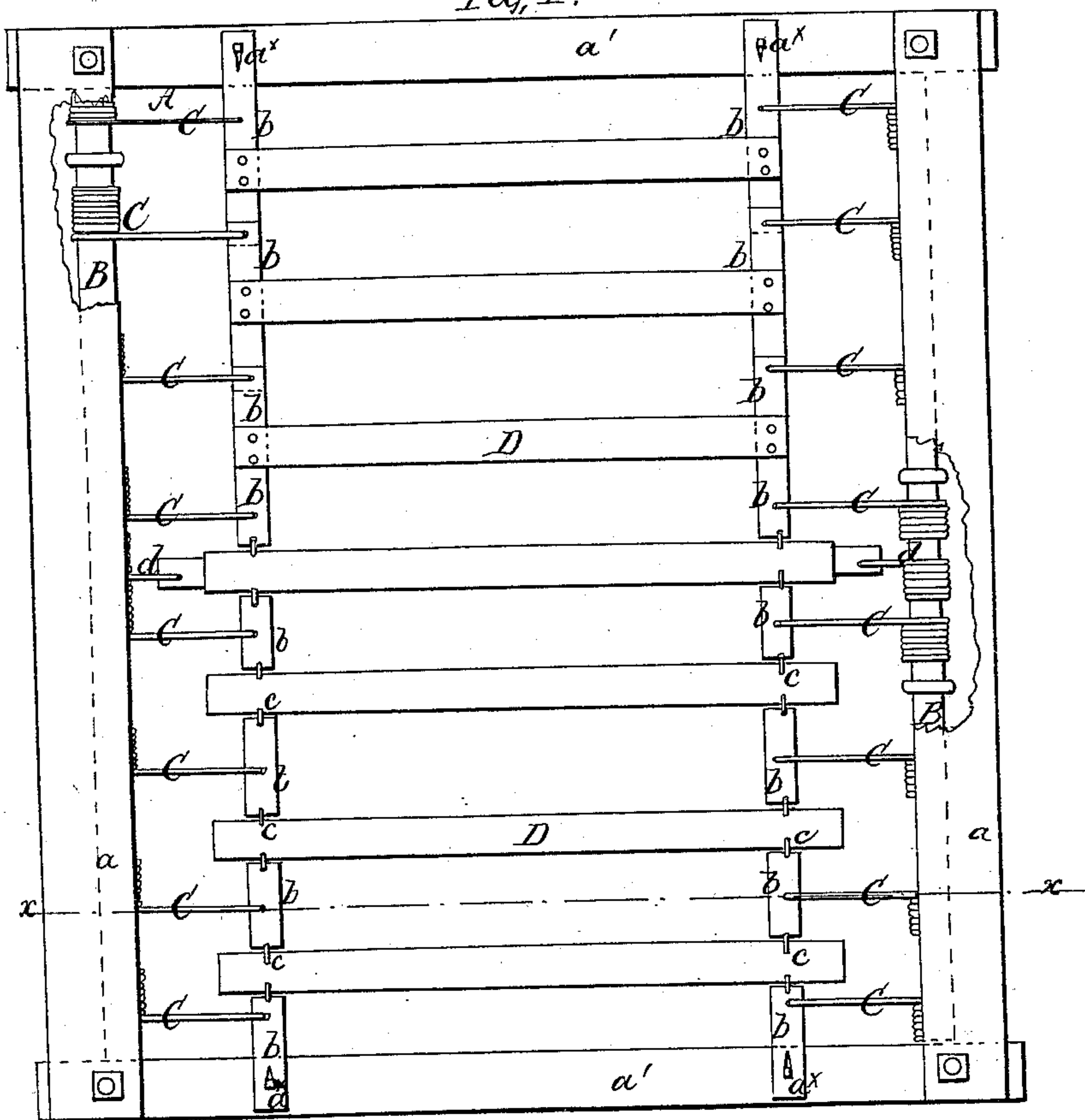
*H. H. Palmer,*

*Bed Bottom,*

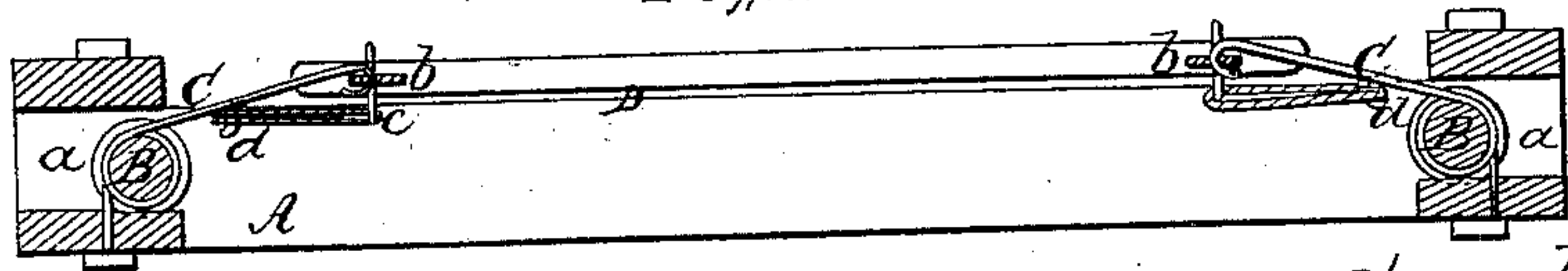
*N<sup>o</sup> 61,242,*

*Patented Jan. 15, 1867.*

*Fig. 1.*



*Fig. 2.*



*Witnesses*  
*Pat A. Service*  
*J. N. B. Carington*

*Inventor,*  
*H. H. Palmer*  
*Per Munn*  
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# United States Patent Office.

HENRY H. PALMER, OF ROCKFORD, ILLINOIS.

*Letters Patent No. 61,242, dated January 15, 1867.*

## IMPROVED BED-BOTTOM.

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

Figure 1 is a plan or top view of my invention.

Figure 2, a transverse vertical section of the same, taken in the line *x x*, fig. 1.

Similar letters of reference indicate like parts.

This invention relates to a new and improved spring bed-bottom of that class in which wooden slats are used in connection with wire springs. The object of the invention is to obtain a bed-bottom of the class specified, which will possess a requisite degree of elasticity, and still not be liable to sink or become depressed or lose its elasticity, and which will be stronger and more durable than those hitherto constructed on the same plan.

A represents a rectangular frame, which is constructed of a size or of such dimensions that it may be fitted in the bedstead for which the spring-bottom is designed, and B B are two cylindrical rods which are secured in opposite sides of the frame A in the head and foot-pieces *a a* thereof. On these rods B B there are fitted wire springs C, the same being constructed of pieces of wire of a suitable length attached at one end to the head and foot pieces *a*, and coiled several times around the rods B, and then extending inward from said head and foot pieces. These springs are at a suitable distance apart, and their outer ends are bent in hook form to fit into leather strips *b*, by which a series of wooden slats D are connected together, the springs being connected to the centres of the strips *b* midway between the slats, as shown in fig. 1. The leather strips *b* may be attached or connected to the slats in different ways. They may be attached by wire hooks or clamps *c* to the slats, or they may be fitted in slits cut in the ends of the slats and project at equal distances from them, at each side their ends overlapping and connected by the hooks at the ends of the springs C. Both of these plans are shown in fig. 1. By this arrangement it will be seen that each slat D is supported at each end by two springs C, and the springs, as a slat is depressed, yield or give in two different directions, to wit, vertically and laterally; hence, the bottom is rendered more elastic, or rather is allowed to yield and conform more perfectly than hitherto to the person upon it. Other bed-bottoms of this class have the springs attached to the slats, one to each end, and, hence, each slat is supported by two springs only, whereas in my improvement each slat is supported by four springs, and without employing any more springs than in the old plan. The strips *b* of the side slats D are attached to the side strips *a'* of the frame A, as shown at *a'x*, and the central slat D I propose to have supported by an additional spring *d* at each end, in order to prevent the bottom from sagging in the centre, a contingency of frequent occurrence with the ordinary spring bed-bottoms.

I do not claim broadly a spring bed-bottom composed of wooden slats connected with wire springs, irrespective of the arrangement of said springs with the slats and tie strips *b*, as herein shown and described.

I claim, therefore, as new, and desire to secure by Letters Patent—

A spring bed-bottom composed of a series of parallel wooden slats D, connected near their ends by strips *b* of leather or other suitable flexible material, with wire springs C, attached to the head and foot pieces *a a*, of the frame A, and connected to the strips *b* centrally between the slats D, substantially as set forth.

Witnesses:

WM. F. McNAMARA,  
ALEX. F. ROBERTS.

HENRY H. PALMER.