

H.A. Coats,

Bed Bottom,

N^o 62,395,

Patented Feb. 26, 1867.

Fig. 1.

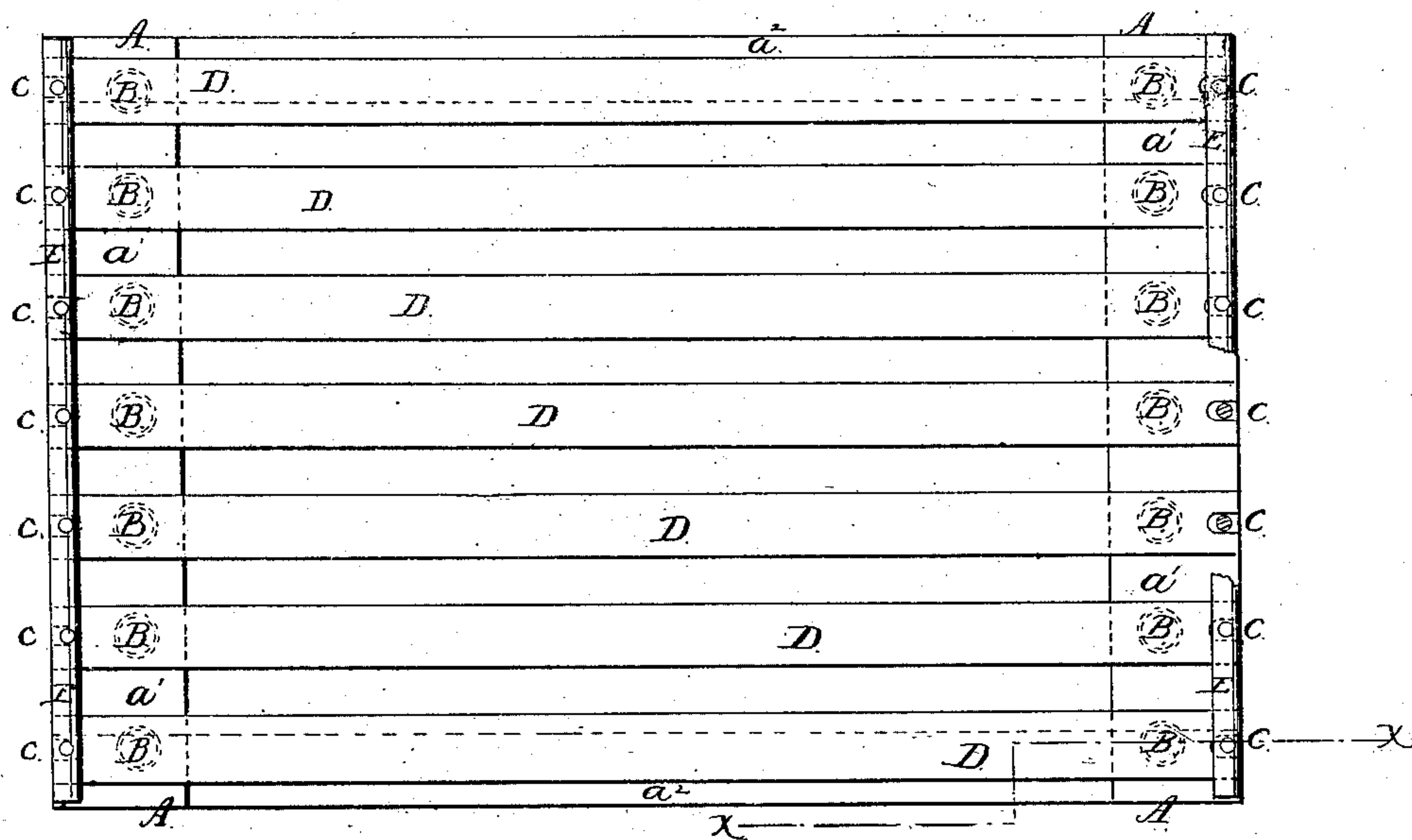


Fig. 2.

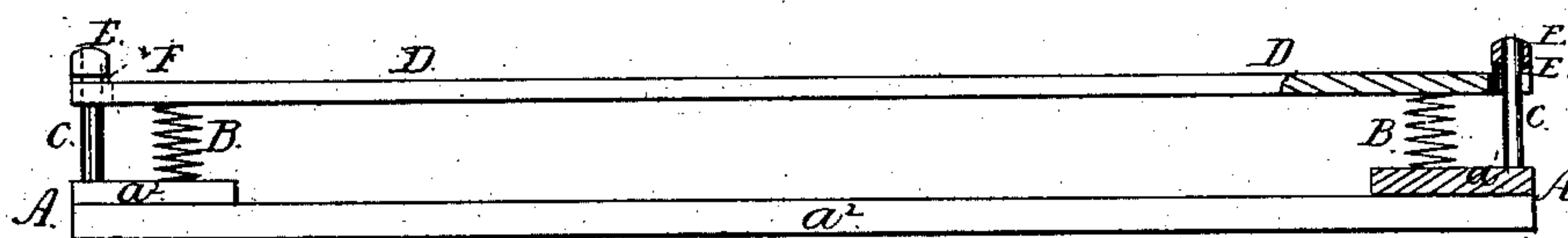
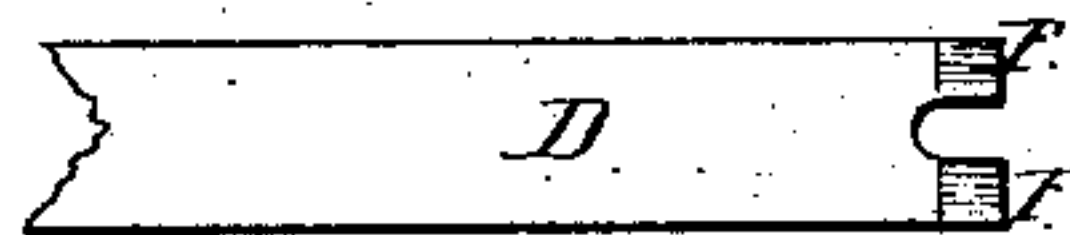


Fig. 3.



Witnesses:

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United States Patent Office.

H. A. COATS, OF WELLSVILLE, NEW YORK.

Letters Patent No. 62,395, dated February 26, 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, H. A. COATS, of Wellsville, in the county of Alleghany, and State of New York, have invented a new and useful improvement in 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 drawings, forming part of this specification, in which—

Figure 1 is a top or plan view of my improved bed-bottom.

Figure 2 is a side view of the same, partly in section, through the line *xx*, fig. 1.

Figure 3 is a detail view of the end of one of the slats.

Similar letters of reference indicate like parts.

My invention consists in the combination and arrangement of the slats, springs, guide-rods, cross-bars, and elastic blocks with each other, and with the foundation-frame of the bed-bottom, when said parts are constructed and arranged as hereinafter more fully described.

A is the foundation-frame of the bed-bottom, which is supported by the bedstead in the ordinary manner. The end pieces a^1 , of the frame A, are made stronger and broader than the side pieces a^2 , so as to furnish a support for the lower ends of the springs B and guide-rods C. The lower ends of the guide-rods C are securely attached to the end pieces a^1 , of the frame A, along their outer edges, as shown in figs. 1 and 2. The guide-rods C should equal in number the number of the slats D, and they should be placed at the same distance apart. The upper ends of the guide-rods or pins C are connected and held in their proper relative positions by the cross-bars E, which are securely attached to said ends, as shown in figs. 1 and 2. D are the slats, the ends of which are notched or slotted, as shown in figs. 1, 2, and 3, for the reception of the guide-rods C. This construction allows them to move freely up and down, and at the same time prevents them from getting out of their proper relative positions. B are coiled wire springs, the lower ends of which rest upon and are secured to the upper sides of the end pieces a^1 of the frame A. The upper ends of the springs B are secured to the under sides of the slats D, so that the said slats may rest upon the said springs, as shown in fig. 2. By this construction and arrangement of the parts of the bed-bottom I obtain all the advantage of the elasticity of the slats D, and of the springs B, and at the same time the said springs are always acted upon in the direction of their length, and the slats and springs are secured against ever getting out of place; thus making the bed-bottom very elastic and very durable. F are rubber or other elastic blocks which are secured to the upper side of the ends of the slats D, where they come in contact with the under side of the cross-bars E, and prevent any noise from the said slats and bars coming in contact with each other while the bed is being used.

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

The combination of the slats D, having notched ends fitting on guide-rods C, retained by the cross-bars E, with elastic blocks F between them, and resting on springs B, independent from the rods, in the manner described for the purpose specified.

H. A. COATS.

Witnesses:

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R. P. BEECHER.