

(No Model.)

W. H. MOORE.
REINFORCEMENT FOR MATTRESSES.

No. 543,044.

Patented July 23, 1895.

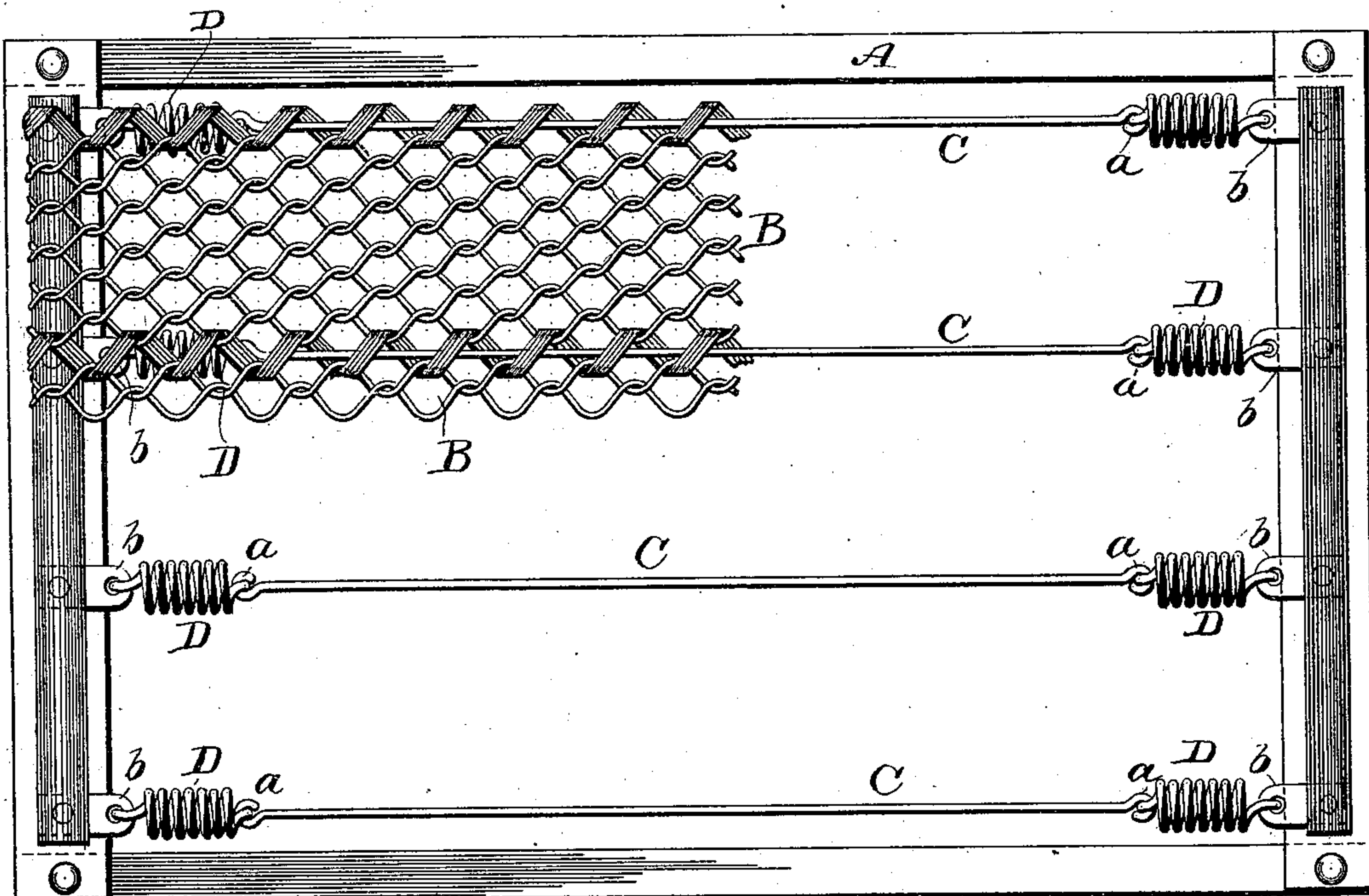


Fig. 1.

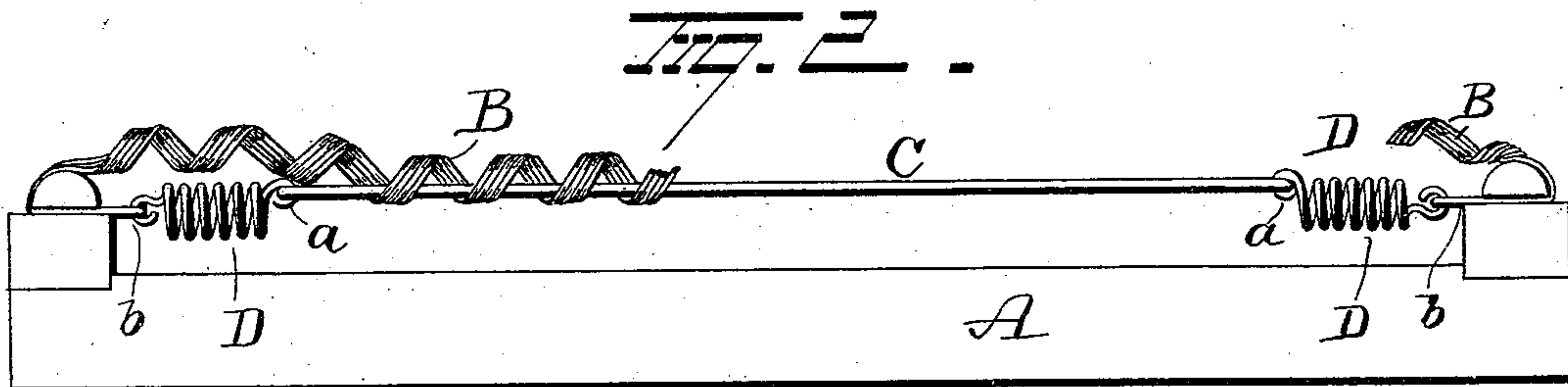


Fig. 2.

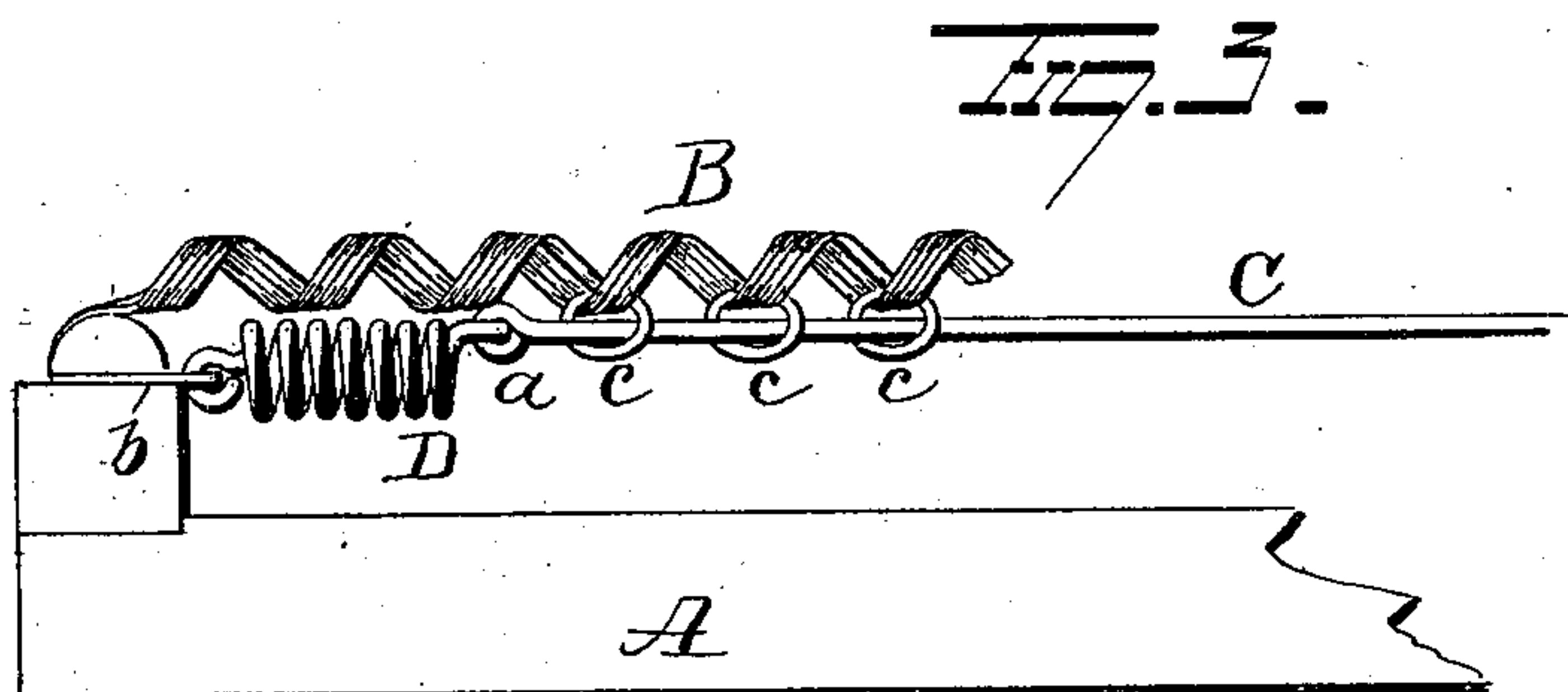


Fig. 3.

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REINFORCEMENT FOR MATTRESSES.

SPECIFICATION forming part of Letters Patent No. 543,044, dated July 23, 1895.

Application filed January 30, 1895. Serial No. 536,695. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. MOORE, a resident of Gardiner, in the county of Kennebec and State of Maine, have invented certain new and useful Improvements in Reinforcements for Mattresses; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in reinforcements for woven-wire mattresses and kindred fabrics, the object of the invention being to produce simple and efficient means whereby to reinforce or strengthen the fabric of mattresses such as are employed in the manufacture of beds, hammocks, bunks, &c.

A further object is to produce reinforcements for mattresses, &c., which can be applied to the same when they are manufactured, or which can be applied to old mattresses and serve to support them and prevent or cure sagging.

With these objects in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as hereinafter set forth, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a plan view of a mattress, illustrating the application of my improvements thereto. Fig. 2 is a detail view of one of the reinforcements. Fig. 3 is a view of a modification.

A represents the frame of a bed-bottom, on which a woven-wire fabric B is stretched and to which it is secured. A series of wires C, preferably of steel, are passed through the coils or meshes of the fabric at intervals of from five or eight inches, or at such intervals as may be necessary to give the desired strength to the fabric. The wires C (which are made of a length less than that of the mattress) are provided at their respective ends with eyes *a* for the reception of the inner ends of springs D,

the other ends of said springs being connected to plates, staples, angle-irons, screws, or other suitable devices *b*, which latter are secured in any suitable manner to the end bars of the frame A. The tension on the wires can be readily increased by shortening them.

By the use of my improvements I am enabled to keep the fabric always flat and in place, free from sag, and can readily renew or reinforce an old and sagged fabric, bringing it up as flat and firm as a new one.

My improvements are very simple in construction, cheap to manufacture, easy to apply to a fabric, and are effectual in every respect in the performance of their functions.

Instead of passing the wires C through the coils or meshes of the mattress fabric, said wires may be disposed under the fabric and connected thereto by means of wire loops *c*, as shown in Fig. 3, or in any other suitable manner.

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

The combination with a frame comprising side rails and ends rigidly secured thereto, cleats secured to these ends, a spirally woven wire fabric stretched from end to end of the frame and the ends thereof inserted and secured between the heads and the ends of the frame, of several reinforcing wires extending from end to end of the frame and connected with the fabric at intervals and yieldingly connected with the frame, for giving support and added strength to the fabric throughout its area, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WILLIAM H. MOORE.

Witnesses:

ROBERT RICHARDS,
A. E. HARMON.