

W. W. Bartlett,

Bed Bottom.

No. 104,538.

Patented June 21, 1870.

Fig. 1.

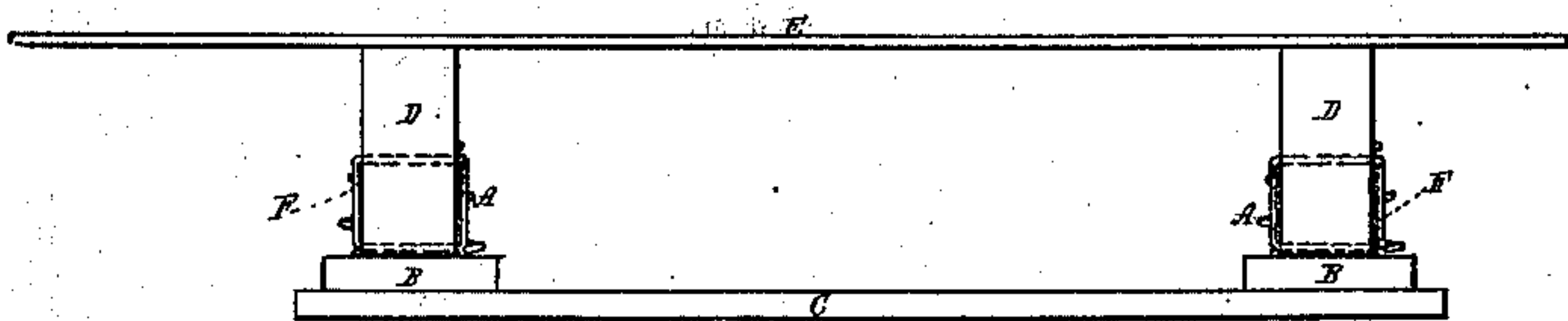


Fig. 2.

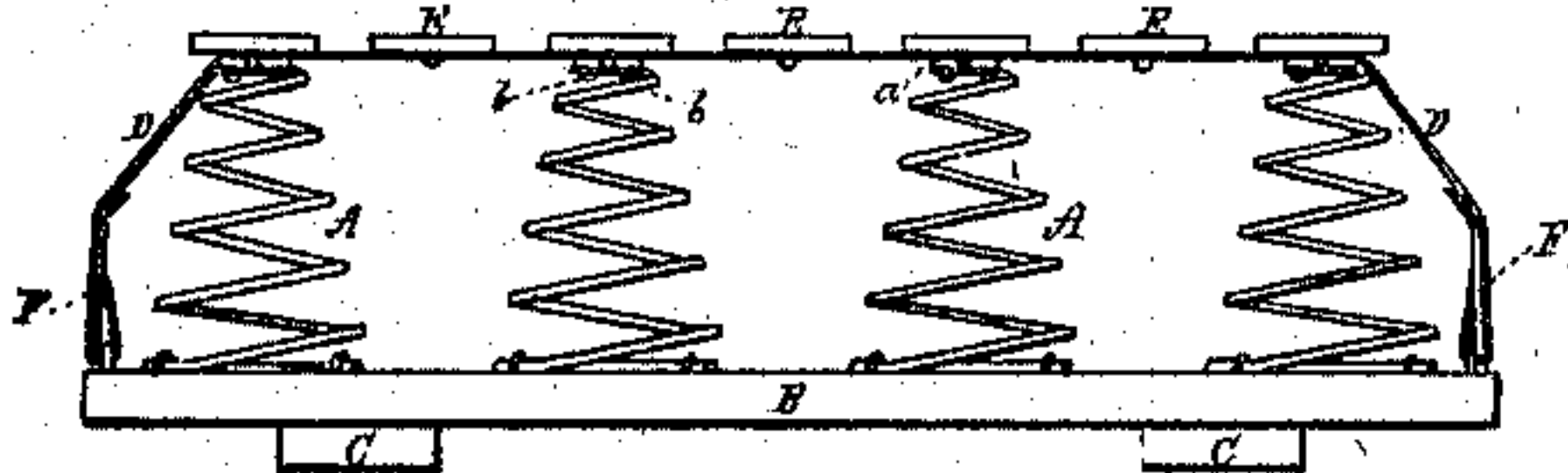


Fig. 3.

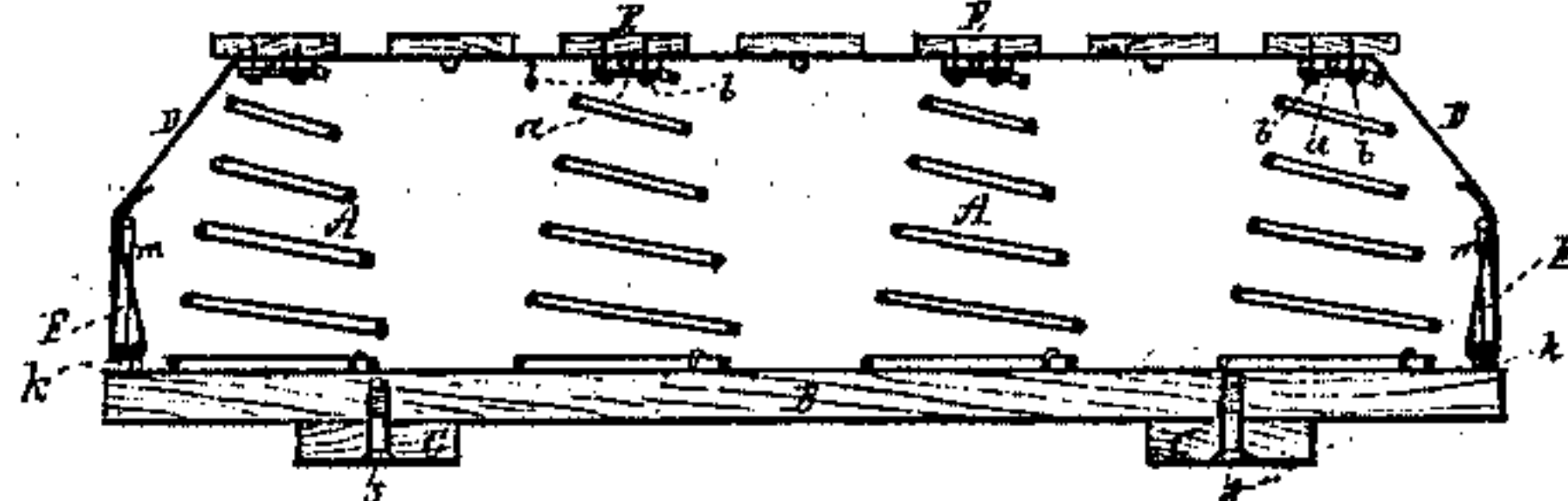


Fig. 4.

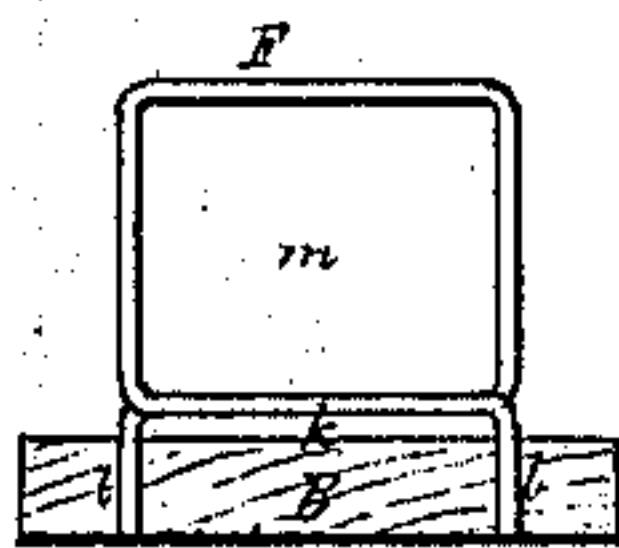
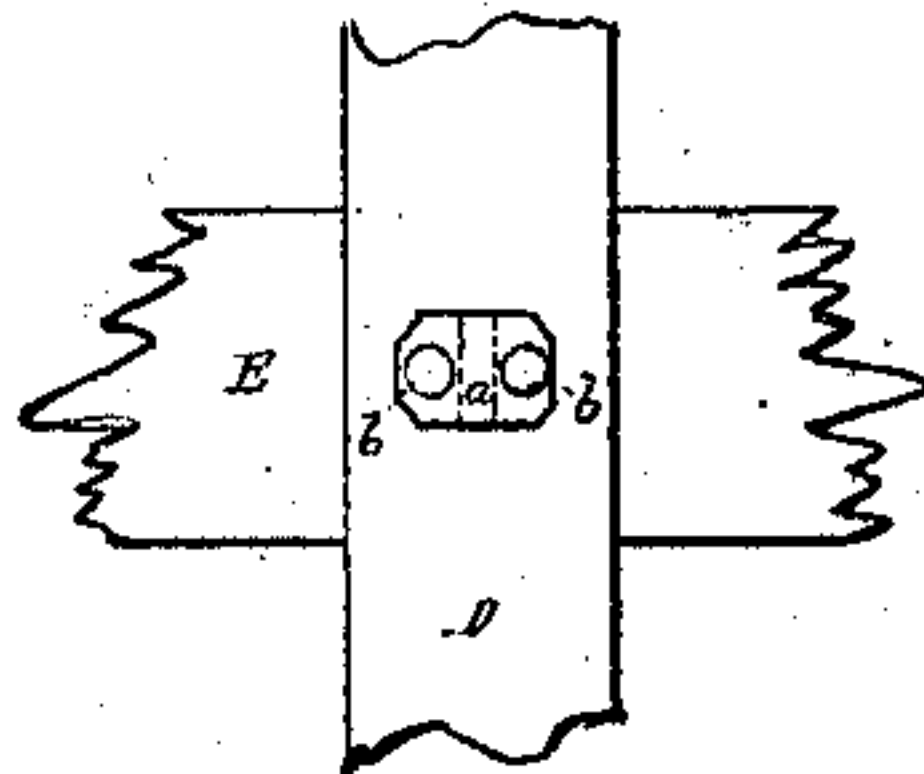


Fig. 5.



Witnesses.

S. N. Piper

L. N. Miller

Wm. W. Bartlett.

by his attorney

H. W. Eddy

UNITED STATES PATENT OFFICE.

WILLIAM W. BARTLETT, OF PORTLAND, MAINE.

IMPROVED SPRING BED-BOTTOM.

Specification forming part of Letters Patent No. **104,538**, dated June 21, 1870.

To all persons to whom these presents may come :

Be it known that I, WILLIAM W. BARTLETT, of Portland, of the county of Cumberland and State of Maine, have invented an Improved Spring Bed-Bottom; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, of which—

Figure 1 is a side elevation, Fig. 2 an end view, and Fig. 3 a transverse section, of it, the said section being taken through one set of the conico-helical springs, to be hereinafter described. Fig. 4 is a section of one of the elastic staples or supporters of the sustaining-band of the springs and slats. Fig. 5 is an under-side view of a band at one of its slat-crossings, the same showing the socket-piece for reception of the head of the spring.

In this bed-bottom I employ two series of conico-helical springs, A, which, at their bases, rests on two cross-bars, B B, connected by common screws *s s* to two horizontal bars, C C. One of two flexible belts or bands, D D, is extended over and upon each series of springs A, each of the springs of such series being, at its upper end, hitched or hooked into or upon a piece, *a*, of leather or other proper material, fastened to the band and one of the slats E by two or more nails, *b b*, which also serve to connect the band to the slat. A series of such slats E is disposed upon the two bands in manner as represented, and is to be nailed or fastened to them. At or near each end of each of the support-bars B there is inserted in such bar an elastic duplex staple or band-supporter, F, it being formed of wire, and arranged in the bar in manner as shown in Fig. 4. It serves various purposes—that is to say, it not only answers as a spring to counteract lateral sway of the band and the slats, but it supports the band and operates somewhat like a buckle to enable it to be taken up or tightened, as occasion may require, should it become too slack.

In applying the band D to each of its supporters or duplex staples F, one end of such band is to be passed through the space *k*, between the legs *l l*, and thence upward through

the eye *m* of the supporter and against the band, in manner as shown in Fig. 3. Such will suffice to connect the band to each of its supporters. The mode of disconnecting the two will be apparent and can easily be carried out at any time.

The elastic end supporters applied to the bands or webbings not only sustain the outermost slats to good advantage, but serve to protect the end springs of the two series from being unduly strained or bent down by a person while either reposing or sitting on the slat over such springs.

I would remark that I do not herein claim the employment, in the place of the elastic-eyed staples or band-supporters F F, of rigid chairs, as shown in the rejected applications of William W. Bartlett, filed July 2, 1868, and Henry Beyrodt, filed October 14, 1868.

I employ elastic staples of an especial form, as represented, and, in the application of the band D to each, it is carried twice through it and arranged therewith in manner as shown in Fig. 3, the staple thereby performing the office of a friction-buckle to hold the band. I also arrange each staple with its bar B so that there may be a space, *k*, between the lower part of the eye of the staple and the bar B, such space being to receive the band D, in manner as shown, all of which is advantageous for the purpose of applying, supporting, or tightening the band, or separating it from the elastic staple, as occasion may require.

I would also remark that I make no claim to the slats, springs or bands, and foundation-frame, arranged as described; but

What I do claim as of my invention is as follows:

The arrangement and combination of the elastic-eyed staples or band-supporters F F, constructed as described, with the cross-bands D D, the conico-helical springs A, their support-bars B, and slats E, the whole being substantially as described.

WM. W. BARTLETT.

Witnesses:

R. H. EDDY,
J. R. SNOW.