

J. Fox,

Bed Bottom.

No. 96,686.

Patented Nov. 9. 1869.

Fig: 1.

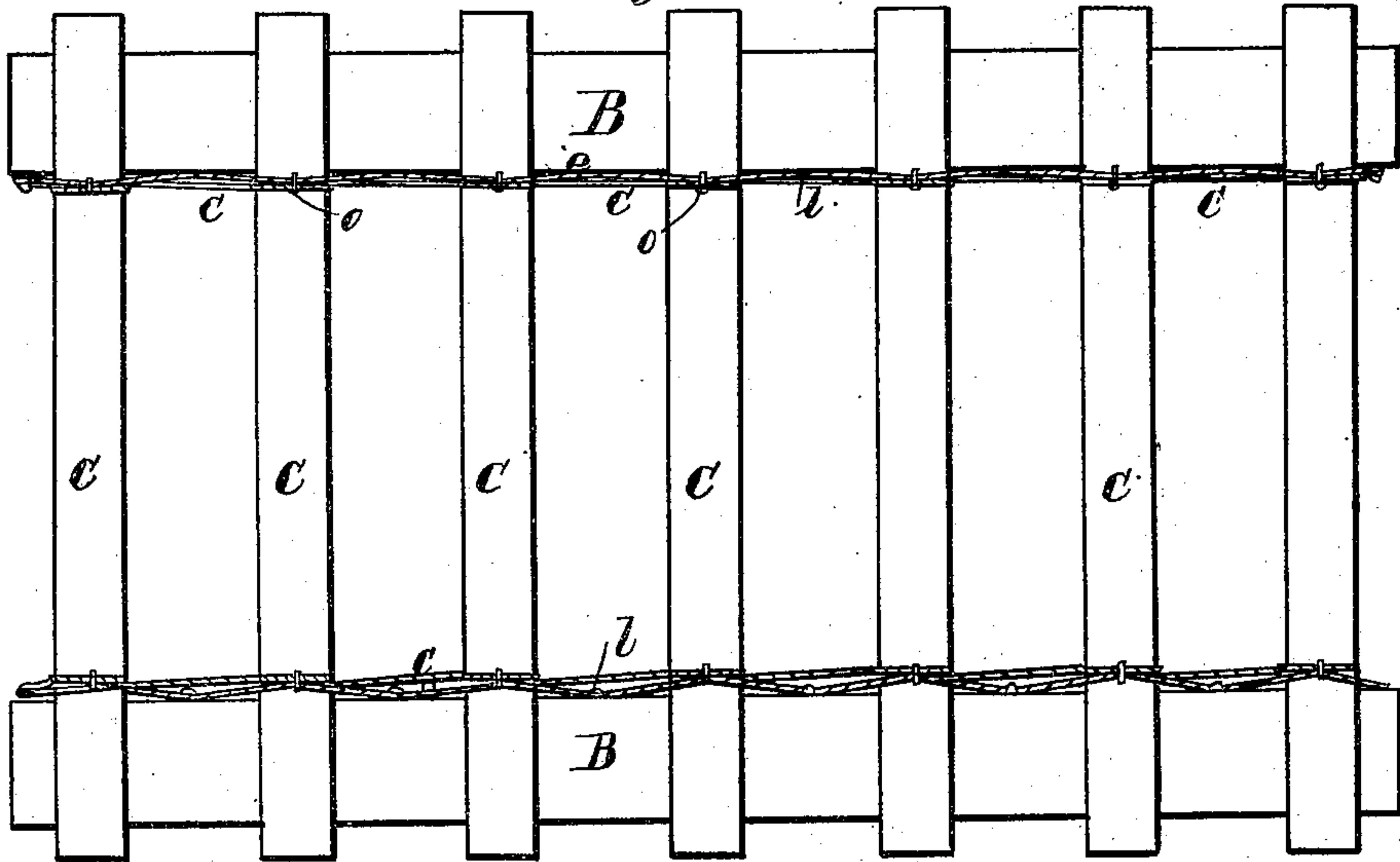


Fig: 2.

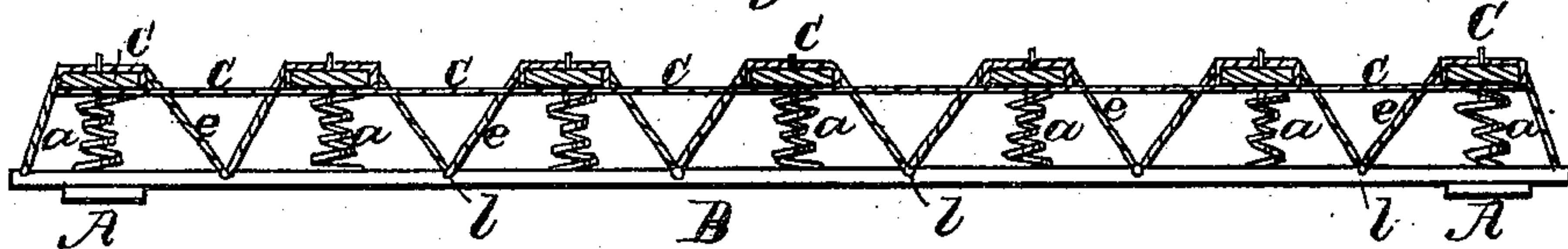
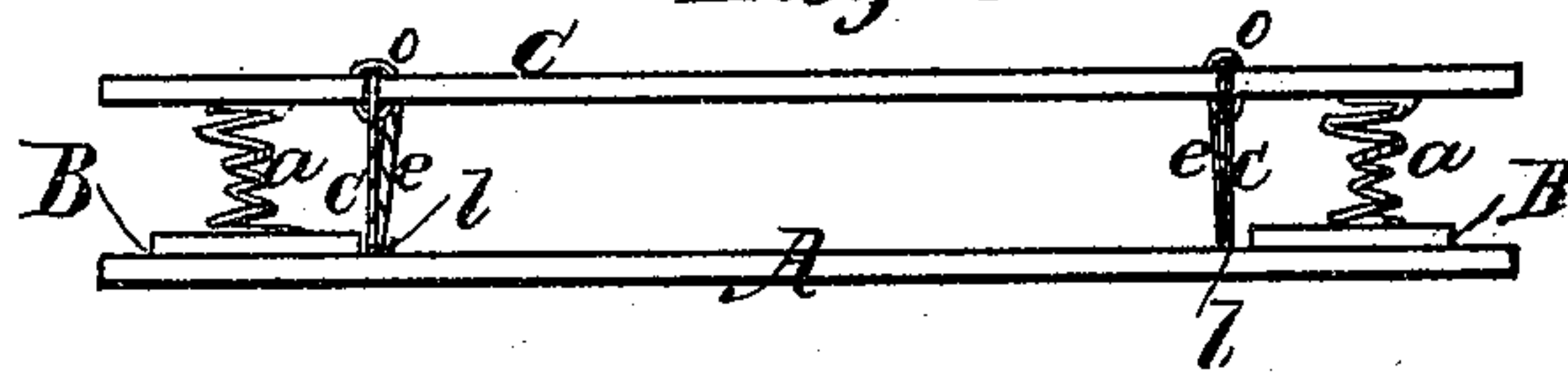


Fig: 3.



Witnesses;
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United States Patent Office.

JULIUS FOX, OF ALBION, MICHIGAN.

Letters Patent No. 96,686, dated November 9, 1869.

IMPROVED SPRING-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, JULIUS FOX, of Albion, in the county of Calhoun, and State of Michigan, have invented certain new and useful Improvements in Spring-Bed Bottoms; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, like letters indicating like parts wherever they occur.

To enable others skilled in the art to construct and use my invention, I will proceed to describe it.

My invention relates to spring-bed bottoms; and

The invention consists in the special arrangement of the parts constituting the device, as hereinafter explained.

Figure 1 is a top plan view;

Figure 2 is a side elevation; and

Figure 3 is an end view.

Many plans have been devised for arranging the springs, slats, &c., in spring-bed bottoms, but most of them are expensive, or liable to get out of order.

The object of my present invention is to produce one that shall be extremely simple, cheap, and durable, and that can be put into an ordinary bedstead by any carpenter or similar mechanic, or by the person himself without the aid of a mechanic.

In nearly all bedsteads, as made at the present day, there are cleats secured along the inside of the side-rails, for the slats to rest on.

In applying my bottom to such bedsteads, I leave these cleats in position, and where they do not exist, I nail on a short cleat or piece of board at each inside corner.

I then provide two slats or narrow pieces of board A, of proper length to reach across the bedstead, and rest on these cleats, one at the head, and the other at the foot; these bars A being shown in figs. 2 and 3.

Upon these I place two slats or narrow boards B, lengthwise of the bedstead, one at each side; and on these slats or bars B, I secure a row of coiled springs, *a*, thus forming a row of springs along each side of the bedstead, from head to foot.

Upon these springs, I place a corresponding series of slats, C, (these slats running crosswise of the bed, the same as the cross-bars A,) each slat C resting on two springs, one at each end, as shown in fig. 3.

To secure these slats C in place, and prevent them

from being tipped over with the springs, I use two cords, *c* and *e*.

The cord *c* is secured to one of the end-slats, and from thence I extend it to and around the next slat, and so on the whole length of the bottom, as represented more clearly in fig. 2.

The other cord *e*, I fasten to one end of the long bar B, then pass it up over the first slat C, where it, with the cord *c*, passes through a small staple driven into the slat; from thence it is passed down to and around a pin, *l*, on the inner edge of the bar B, midway between the two adjoining slats, and then up over the next slat, and so on to the opposite end of the bottom.

This same arrangement of the cord *c* and *e* is repeated on the opposite side of the bottom, as represented in fig. 1.

In making these bottoms, I use two sizes of springs, placing one set of the weaker ones at the head, then four sets of the stronger ones, and then three sets of the weaker ones at the foot.

By this arrangement an equal number of each kind is required, and the strongest springs are brought where the greatest weight is applied to them, thus preventing that sagging at the centre that is sure to occur when springs of uniform strength are used throughout.

By this plan of constructing the bed-bottom, the ordinary cross-slats can be utilized by being placed on the springs, while an ordinary narrow fence-board cut in two will just make the bars B, and another, the cross-bars A, thus making a very simple and cheap bottom, and enabling almost any person to readily convert an ordinary slat-bed into a spring-bed with but trifling expense.

I am aware that all the elements constituting my bed-bottom have been used in one form or another, and, therefore, I do not claim either separately, nor do I claim them combined, irrespective of the special manner of using or combining them; but having thus described my invention,

What I claim, is—

A spring-bed bottom, consisting of the cross-bars A, side-bars B, and springs *a*, with the slats C, held in place by the cords *c* and *e* applied thereto, and all arranged as herein described.

JULIUS FOX.

Witnesses:

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