

(No Model.)

H. ROBERTS.

BED BOTTOM.

No. 275,523.

Patented Apr. 10, 1883.

Fig 1

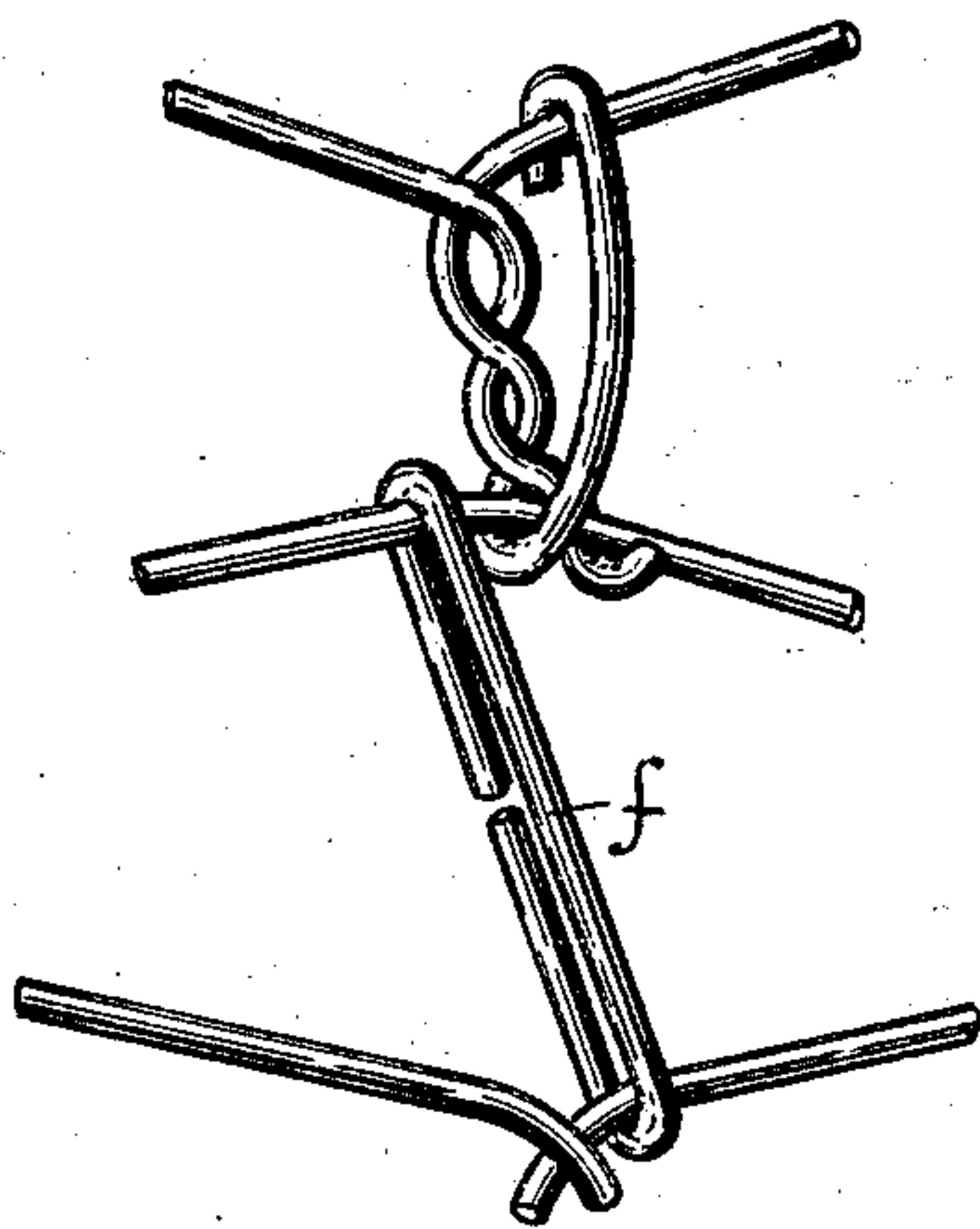
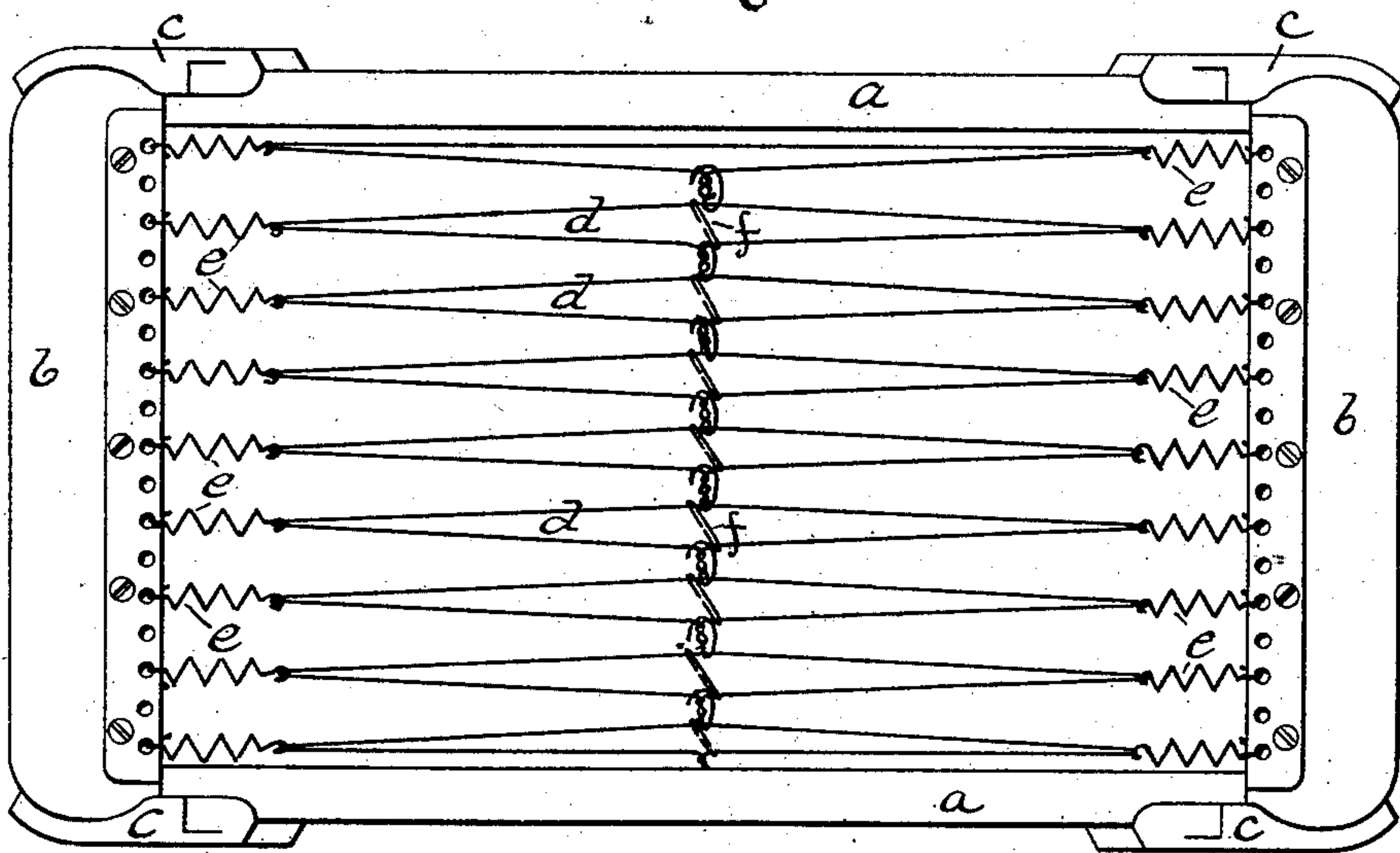


Fig 2

Witnesses
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HENRY ROBERTS, OF HARTFORD, CONNECTICUT.

BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 275,523, dated April 10, 1883.

Application filed January 24, 1883. (No model.)

To all whom it may concern:

Be it known that I, HENRY ROBERTS, of Hartford, in the county of Hartford and State of Connecticut, have invented a certain new and useful Improvement in Bed-Bottoms, of which the following is a description, reference being had to the accompanying drawings, where—

Figure 1 is a top view. Fig. 2 is a detail plan view on enlarged scale of the joint between the figures.

The letters *a* denote the side rails of a bed-bottom frame. The letters *b* denote the end rails, and the letters *c* denote the corner-pieces or standards. My invention does not reside in any of these.

This bed-bottom is one made up of flexible and preferably diamond-shaped figures, the material being by preference steel wire, each figure extending from end to end of the fabric, and each figure made up of a single piece of material, and preferably linked or attached by that same piece to the next figure. The letters *d* denote (each of them) one of these figures formed of a single piece of elastic wire extending from end to end of the fabric, (exclusive of the springs,) and linked by a part of that same piece of wire each to its fellow, as represented in both the figures of drawings, but perhaps better seen in Fig. 2. At each end of each of these there is a spring, *e*, by which the fabric, as a whole, is attached to the end rails of the bed-frame.

A bed-bottom fabric made as herein described has, exclusive of the end springs, a great degree of flexibility and elasticity; but the springs at the end allow the figures which make up the fabric to exert their flexibility

and elasticity, when in use, better than in the case where the end springs are absent. When one of these diamond-shaped figures composing a bed-fabric is depressed by a weight superimposed at about the center of its length, the figure opens or widens, and, as a consequence, the whole bed-fabric expands sideways. This can be prevented or controlled to any degree by the use of a link, rod, or chain, such as is denoted by the letter *f*, which may be a continuation of the wire which forms the figure. The figures at the sides or edges of the fabric are in the shape of a half-diamond, or of a diamond bisected lengthwise, so that the edges of the fabric may be straight.

I claim as my improvement—

1. A bed-bottom fabric composed of flexible diamond-shaped figures reaching from end to end of the fabric and connected at the center of their length, substantially as described, and for the purpose set forth.

2. A bed-bottom fabric composed of flexible diamond-shaped figures reaching from end to end of the fabric and connected together, in combination with springs attached to the ends of such fabric, substantially as described, and for the purpose set forth.

3. A bed-bottom fabric composed of figures, each of which extends from end to end of the fabric, is made of one piece of material, and is linked by that same piece to the next figure, substantially as shown and described, and for the purpose set forth.

HENRY ROBERTS.

Witnesses:

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